

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Joseph R. Byrum, *et al.*

Appl. No.: To Be Assigned

Filed: November 24, 1998

For: **Nucleic Acid Molecules And Other  
Molecules Associated With Plants**

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 38-21(15075)B

**Statement Regarding Sequence Submission**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.821(c), (e), and (f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above-mentioned application are the same.

Respectfully submitted,

Date: Nov 24, 98

Lawrence M. Lavin, Jr.  
Lawrence M. Lavin, Jr. (30,768)

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700 Chesterfield Parkway North, BB4F  
St. Louis, Missouri 63198

by  
D. R. Marshall  
Reg. No. 41,408

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<110>      Byrum, Joseph R.
           La Rosa, Thomas J.

<120>      Nucleic Acid Molecules and Other Molecules Associated With
           Plants

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 aacactttct tcattcaactc ttgtttcctc ctcttctgtc tcctctcggc tccttctgt 180  
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<210> 41  
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<223> Clone ID: 700547952H1

<400> 41

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 ataaatcact tataaccatg cgnangatag ttgaaatgcn tgacgttttg cgnatttgg 180  
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<210> 42

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547953H1

<400> 42

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 ttatgatcta aaacaagaat tagtgcttgg tatagtttga ttgggaaaaa attggatatc 180  
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<210> 43

<211> 91

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547955H1

<400> 43

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<210> 44

<211> 251

<212> nucleic acid

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<400> 44

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caacatggtg atggttttcg gagagatcac aaccaaggcc aacgtggact atgagaagat 180  
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<211> 268

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ctcattccta aaccaagtta tccctgaaaa catcacgaa ttccaagtga ctctgtccct 180  
cgctagagac tacgatggca acaactcaac caacggaaag ttcattcctt actgggacac 240  
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<210> 46

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547958H1

<400> 46

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attnggatga tgaggaagat ngtgagtga cccccctac catgccaacc ctgagtacna 180  
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 ctccatccaa cggttggtcg acgcgggtca ccgaacatgt ccaattacca aactaccctc 180  
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 <212> nucleic acid  
 <213> Glycine max  
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gatagacggg acttcaactc ctatggaagt cgccgtggta atgatgaggt gatggcccga 180  
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 gcaggacctc catcattacc ccagagagag ttgtattcaa gaaggcttca ttgcaataca 240  
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 <223> Clone ID: 700547964H1

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ttggatccga agaggnacac gattctcgac gngtctctg ganttacaga ggatgtgggt 180  
gccttcgcca gaagcgtagt ttgcatccag aaacttggct cgattttccc cttcccgatg 240  
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<210> 53  
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tcagaggaga aanctgaaga agtgaaagaa gaagcagagg agcctaaaga nactactgan 180  
acagnatcag cagcagcagg caccaccagc aaccacagag ggaagagaac aaaccagctg 240  
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<210> 54  
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<210> 55  
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 atcatcaaca cattctacag caacaaggag attttcttgc gtgaactcat cagcaatgct 180  
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<210> 56  
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 aaatccatgg ctggcttccc cagaggaag accaacaatg acattacctc cattgctagc 180  
 aacggtggaa gagtacaatg catgcaggtg tggccaccaa ttggcaagaa gaagttcgag 240  
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<210> 57  
 <211> 66  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700547970H1  
  
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<210> 58  
 <211> 266  
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<223> Clone ID: 700547972H1

<400> 58

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 tcaagggtcc ccaacagcaa ggtttccggt ggaagcttca agattgttgc tgtagaagag 240  
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<210> 59  
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<223> Clone ID: 700547973H1

<400> 59

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 tgaatcagtg ancgaggggc accctgacaa gctctgtgan cagatctccg atgctgtgct 180  
 cgatgcatgc ttggagcagg accctnacag caagggtgcc tgtgaaacct gcaccaagac 240  
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<210> 60  
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 <213> Glycine max

<223> Clone ID: 700547975H1

<400> 60

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gccgcggagg acgcgagttc ggctgtggag ggtgggtcgc cgccgcntcc tccggcggag 240  
agcgaganag agagcggcgc ctccgt 266

<210> 61  
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<213> Glycine max  
  
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<400> 61

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caaagcaaag tctttcctan ttggatggcn gcnttccggg tgnctatnga nttgagcctc 240  
nnggacattc ggaanctgaa nga 263

<210> 62  
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<213> Glycine max  
  
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<400> 62

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tgaagagcgc caaggaatgt attaagcaac gaaggaccaa ctctgaatta tatggaaaga 180  
tgcaagaggt gattgtagaa atggatacag accctacggg taaagaattg gagaatttga 240  
aggaggctgt aatgcaatct gatagca 267

<210> 63  
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<213> Glycine max  
  
<223> Clone ID: 700547978H1  
  
<400> 63

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 gacattcagg agttggagaa tgtattaaag gtgaaattgc ctcttcctac aaggatcctt 180  
 tatcgcnttc acaatgggca agaatttgca aaggcagatc cagaaactag tacatttggc 240  
 agatctttgg gtctaattgg tggct 265

<210> 64  
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 <400> 64

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<210> 65  
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 <213> Glycine max  
 <223> Clone ID: 700547980H1  
 <400> 65

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<210> 66  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700547981H1

<400> 66

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 cctgagcctc ttggcgtctc acancctggc ctctggcgga gcgggcccgc gccgcgttc 240  
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<210> 67

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547983H1

<400> 67

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 aaatccatgg ctggcttccc caccgagga accaacaatg acattacctc cattgctagc 180  
 aacggtggaa gagtacaatg catgcagggt tggccaccaa ntggcaagaa gaagttcgag 240  
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<210> 68

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547984H1

<400> 68

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 tttttcaaaa cgcaaggcca taaaaagtca agtaagaaag caaaagtgat gccaccacaa 180  
 catggacaaa agaaagttaa aatagacaan aaaatgaaga aacttttccg caagcgagca 240  
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<210> 69  
<211> 266  
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<223> Clone ID: 700547985H1

<400> 69

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ttcagcttgt tgcacaagga cggcgatggt tgcatacaca ccaaggagct tggaactgtt 180  
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gatgctgatg ggaatggtac cattga 266

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<400> 70

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cctgtggcac ta 192

<210> 71  
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<212> nucleic acid  
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<223> Clone ID: 700547987H1

<400> 71

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<210> 72

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547988H1

<400> 72

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ctagtaaaga tggagagtca tttcttggtg aatggaatga aagtgaanga gccattnaga 180  
gaacatacaa tgggntcagn aagaaatcca ctggntttgt gcagtttgac acaacccaaa 240  
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<210> 73

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547989H1

<400> 73

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ccccagcaa nttcatcaag tcttcgngga gcaccacca gtanccagcc ctctgcatcc 180  
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<210> 74

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700547991H1

<400> 74

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<210> 75  
 <211> 262  
 <212> nucleic acid  
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<210> 76  
 <211> 263  
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 ccgattccat ccacgaagct tttctgaagg ccgccgcgc cgtcaaatca cgcgccgcct 180  
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<210> 77  
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 <212> nucleic acid  
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<223> Clone ID: 700547994H1

<400> 77

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 ctctgtcct taactggccg ggtcgtgcct ccggtgctgt tactttgaag aaattagagt 180  
 gctcaaagca agcctacgct ctgtatacat tagcatggga taacaccaca ggattctgat 240  
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<210> 78

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548001H1

<400> 78

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 ttagcggact cgttcataga agaaacgagg cgcaaganac agcctacgac tcctccgaga 180  
 agattgtggg ggttggagtg gacgagtcgg acaacgagga caattggggg agagtacccc 240  
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<210> 79

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548002H1

<400> 79

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 aacggcgctg tccaagaagc cctctccac cctcccttcg ccgtgggtact ttcccaaaat 180  
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<210> 80  
 <211> 275  
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<223> Clone ID: 700548004H1

<400> 80

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 ggaatcatgc cctcaggctg agacatcatc acagaacaag tcaagcttct ctacaagcgc 180  
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<210> 81  
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 <213> Glycine max

<223> Clone ID: 700548005H1

<400> 81

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 tccaaagtgc aagatgccgg aaaatccata ccaaaagatg ctgcttatca gataataaac 180  
 gatgagttga tgttgatgg tgcaccaagg ctcaacttgg cctcgtttgt gaccacttgg 240  
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<210> 82  
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<223> Clone ID: 700548006H1

<400> 82

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aaaatttctc cgaagactgt gtattatcgt tatcgatcac tgagttaggt tttgctgttc 180  
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<210> 83  
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<223> Clone ID: 700548007H1  
  
<400> 83

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aaaattttat gcaatctgaa ttttcctcgt gagtgtcact cttgaagaca ttccaaatca 180  
tggaaccatt cactttgttt gcaactcatg gggtttacaat gcaaaaagtt acaaaaagggg 240  
tgattttcttg ctaataagac atatctccca a 271

<210> 84  
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<212> nucleic acid  
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<223> Clone ID: 700548008H1  
  
<400> 84

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gaggttttgtg acaatagaaa ggagattgtg cagattgaag gatcgattca atcaagttag 180  
aggaacaatt tgttggcaga agcagaagga agcatttcat ctactgatgg gcgtgtcaaa 240  
agtcaacaac ttcctctaag atgaaagatg aatc 274

<210> 85  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700548009H1  
  
<400> 85

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 caggattcgt gctccctgct caacgagatc tactcatgcc gtcactgtca taacgacgct 180  
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<210> 86  
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 <223> Clone ID: 700548010H1  
 <400> 86

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 gtttctcttc tgcttcgtat ctattctttg cttttggttt tggttgattc aaggccttca 180  
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<210> 87  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700548011H1  
 <400> 87

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 tccattcccc aacctcttcc tcacctctcc cactcgaaaa ttccctcgct ctgcacctaa 180  
 ccctattcta cgctgctcca ttgcggagga atccaccgag tctccgcca aaaccagaga 240  
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<210> 88  
 <211> 275

<212> nucleic acid  
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<223> Clone ID: 700548012H1

<400> 88

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tcaagtcttc cagcagccaa cttgcatctg gtgatattga tgtgagaatg aatcttgatg 180  
atccattaaa tcgaaacgtt gatactgcga gaaatgttct ataagaacta agaacacaaa 240  
tccaccagaa atatttgatt tgtcaaggct tgtgt 275

<210> 89  
<211> 165  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700548013H1

<400> 89

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<210> 90  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700548014H1

<400> 90

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ttttcaatca ctccccacct tggaattcaa gggtttgagc aaggaggagg aagactcatt 180  
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ctgtcataga gcttcgtata gcggacatac ta 272



<210> 91  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700548015H1  
 <400> 91  
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 gcattcgcga ccgagtctcg cgactcgttc tcgaaaacct cgacctagaa ggtccattca 180  
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<210> 92  
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 taaagctcag tgctgaaaaa nggctgcttt ggactctaag gnnttaagag anaaagatga 180  
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 gcgtcattgt tgatttatcc caagaaagag atga 274

<210> 93  
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 cctcactttc tcgtcctttt cttctcagaa atatgccttc tcagaaagt gaaacgggtc 180  
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cacagatcac acaattaaga taattggggt gagta

275

<210> 94  
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 <223> Clone ID: 700548018H1  
 <400> 94

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 ttttttattt gttgattcta ttttgctttt ggggtgggtgct aaattttggt tctttttggt 180  
 gtttttagact tctagtgtgt agtgcagatg aagaattagg tgattaacct ttcttgctct 240  
 gttattttga tgtttcagct tgttggaagc ta 272

<210> 95  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700548019H1  
 <400> 95

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 atgggtcttc cctgagacaa caccggtatc attgtcttgg ctgagggtcg attgatgaac 180  
 ttgggatgag ccaactggaca cccagtttt gtgatgtcct gtccttcac caaccaggca 240  
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<210> 96  
 <211> 272  
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 <223> Clone ID: 700548021H1  
 <400> 96

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ttcactgtca aggacatcag tggaaatgat gtgagtctga atgattacag cgggaagggtt 120  
 ctactgattg tgaatgtccc tctcaatgtg gtttgacaca gacaaattac aaagaattga 180  
 atgtattgta cgagaagtac aagaatcaag gatttgaaat cttggcattt ccgtgcaaca 240  
 tttgctggac aggaaccagg aaacaatgaa ga 272

<210> 97  
 <211> 272  
 <212> nucleic acid  
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<223> Clone ID: 700548022H1

<400> 97

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 aggacatcat aagctataca tttatgttca aatgggtgag atttacaatg aacaagttag 180  
 agacctactt gcagaggaca aaacagacaa caaattagaa attcggagct gcaatgatgc 240  
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<210> 98  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700548023H1

<400> 98

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 actacgttgt gggggattat ggaagcaatt aggataagct gtgctgggta tccnactaga 180  
 aaaacctttg atgaatttgt ggatcgnntt agccttcttt cacctgaagc attgacgnag 240  
 ttctgatgag gtcattgctt caagagga 268

<210> 99  
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 <212> nucleic acid  
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<223> Clone ID: 700548025H1

<400> 99

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ctccctacac ctacgcaca cagcacaat tcttcctttc tctctttttg atgtcttagg 180  
aaccatccaa tctgaatttg tgtatcatgg tgattgattt tccttcttcc tttttgttgt 240  
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<210> 100

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548026H1

<400> 100

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cgggtacctg aatcaggga cccttctaga ggaacaacac ttgttattac tctttcattg 180  
gtgcttttoga cacttgtgtc cttctccact ttcacacatg ccttctcttc ttctgcgttc 240  
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<210> 101

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548027H1

<400> 101

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tctctgaatt ctctggctcc gcagctcatc aggttccctt cccttttcta gaaaatcttc 180  
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<210> 102  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700548028H1  
  
 <400> 102  
  
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 gagggtcagc atgaggaaac cgtcaccaag caggcctcct ccggaagccc atgttacggc 180  
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 agttcccagg tgantacggc tgggacatgc t 271  
  
 <210> 103  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700548029H1  
  
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ccaacagagc acttagagag tttaactgag agctgcaggg atggctcatt tggatgtttg 180  
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<210> 105  
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 accttcacct ggtgcactaa caaaagtgac cctttggata agaattcaaa aggttatctg 180  
 aggatctcac aaatttggtg aatttccctg attctatggt gtataggggtg tgcaagggtac 240  
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<210> 106  
 <211> 270  
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 <223> Clone ID: 700548033H1

<400> 107

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ggaagcaaat cgaagccagt accaagtttt tcagcactgc tgggtgcca tttgggtgagg 180  
gctgccactt cttgcactat gttcccggtg gttataatgc agttgcccat atgatgaatt 240  
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<210> 108

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548034H1

<400> 108

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gagtacgtga gctggaggag gtgtttatgt cgaacgacan gnggaggagg gaggttcatt 180  
acttgcttaa acgacgaggc ggtggctcgg atctggccgt tttgggaaaa gagaagacct 240  
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<210> 109

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548035H1

<400> 109

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agatgctatc atccctaata gtaggggcga cccattcaat agatctaata gatggaatgc 180  
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tgcagcctca tcatgacaaa gctatgca 268

<210> 110  
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<223> Clone ID: 700548036H1

<400> 110

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 taccctcctt atgggagggga ctttgtaac caccaaccta ctgggaggtt ttgcaaggca 240  
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<210> 111  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700548037H1

<400> 111

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 gatttccatt ctgtcatgcc ttccagacct atgcagttgg aagcagtgga ggatacaaga 180  
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<210> 112  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700548038H1

<400> 112

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<210> 113  
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<223> Clone ID: 700548039H1  
  
<400> 113

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caccaccaac gttaccgctg ctctgctttg ccttctctcc ctccctcgct ctccaacacc 180  
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<210> 114  
<211> 265  
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<400> 114

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<210> 115  
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 aaccgagatg tgctagaagc agttgctacc agtctgcatg ctggtgatag aatgaaagag 240  
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<210> 116  
 <211> 52  
 <212> nucleic acid  
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 <223> Clone ID: 700548043H1  
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<210> 117  
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 <400> 117

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<210> 118  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700548046H1  
 <400> 118

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ttctctggcc ttgtctttga aataggt 267

<210> 119  
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<210> 121  
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<212> nucleic acid  
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<223> Clone ID: 700548050H1

<400> 121

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 atgttgcagc ttcttgaatc ttcattggacg tactaagcaa gcagtttcta agccatttgg 180  
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<210> 122

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548051H1

<400> 122

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<210> 123

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548052H1

<400> 123

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 <213> Glycine max

<223> Clone ID: 700548053H1

<400> 124

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<210> 125  
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<223> Clone ID: 700548054H1

<400> 125

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<223> Clone ID: 700548055H1

<400> 126

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<210> 129  
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<400> 129

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<210> 130

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548059H1

<400> 130

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 aactggctat ggtagcgctt ttcggaggta aaatgcgcaa gttttaggct tgctgtggaa 180  
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<210> 131

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700548060H1

<400> 131

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 ggtattttaa aaaaaaatga aagtagacaa ataaaaaagg aaaggagatg tttgantaaa 180  
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<210> 132

<211> 268

<212> nucleic acid  
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<223> Clone ID: 700548062H1

<400> 132

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 tccgaaatag ctgtacaaaa agttcatcag ctgtaatact atgtccagcc ataacaaatt 180  
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<210> 133  
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<223> Clone ID: 700548063H1

<400> 133

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<400> 134

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ttgacactga acaagatggt aaagagccag aagaggaagc agaagttgaa caaattgcag 240  
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<400> 148

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264

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 gcaagaaaac ggcgtctggc tgggcacctt cgacacagcc gaggaagccg ctcgagcgta 180  
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<223> Clone ID: 700548096H1

<400> 163

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 aacaacaact ctctttaacc gttggagcta gaggtccaat tctgctggag gattatcatc 180  
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<210> 164

<211> 187

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<223> Clone ID: 700553501H1

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 gtgtaacgtg tgtgaggctg cggaggccaa gggtctttgt tgtgctgatg aggctgggct 180  
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aggcacttgg caagctgagc ctggtgttgt agccaaagct gtcaccacag ccattctggt 180  
tggatacagg catattgatt gtgctcaagc gtataacaat caagcagaga ttggttctgc 240  
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<210> 172  
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ccagcttcat ttgtgcttct tctgttatgg caacatctga agtttcaggg aangaagtgg 180  
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cgacaccgtt actgctttgg cgtcccacat ctccatccag ctcattagtg ccaccaaggc 240  
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<210> 175  
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ggtgcaaggc acagcttcga tgggaaattg ctgggggttct ccacctcaca acccaacccc 240  
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<212> nucleic acid  
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 cactatacag catttgtccg ttatggctat gataaatggt atgattttga tgacagcagg 180  
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<400> 183

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256

<400> 193

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<400> 194

tcaccttatg tttcttttat ttggcttttag tg 272

<400> 195

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 gcgacaancg gagccgccgc gcgatcatga gcggcgacca ggtcgacatc gaagcgtacg 240  
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<223> Clone ID: 700553539H1

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<212> nucleic acid

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 gtctcagcag aaatgaggtt gttgatatta gaagtttcaa gagaattcac tcgctggagt 180  
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 aaatccgagt atgaagagca tggagcttca tatatccaaa ggaagtgtcc atgagctgct 180  
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272

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<211> 273

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<213> Glycine max

<223> Clone ID: 700553545H1

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tggacctggg gtttcagctc ccagttcatc cttctttggg agcagcttga agaaggttat 180  
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<210> 205

<211> 93

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553546H1

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<210> 206

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553547H1

<400> 206

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tctccttcca ccattttccc cccaaagtcc gttactccca ccactctttt cgtttctgcc 180  
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 acaagcaatg actcattcct aaaccaagtt atccctgaaa acatcaccga attccaagtg 180  
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 <212> nucleic acid  
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 <223> Clone ID: 700553550H1  
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 cggcctgtga ttgtttctgt ttctgctatc tccgataata actctcactc ttacactagc 180  
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98

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gagaaatcaa atcgaaattt aaggagggcc atattgtcat ttgagacttg tcgtgtccaa 240  
cagtatcctt tcaactaaca acaaacaat 269

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<223> Clone ID: 700553554H1  
  
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aatgggttat aangatatct atagatatat anagatatat ttatctatag atatctttnc 180  
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<210> 213  
<211> 269  
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<213> Glycine max  
<223> Clone ID: 700553555H1  
<400> 213

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gacgtcggag taacctccaa aaccaccaga agcagctcca ggttctggcc tcgttggatt 180  
cccacttcca ccgatcacat catcgctgcc gagaagcgcc ttctttccgt cgtcaagact 240  
ggttatgttc aagagcatgt taacattgg 269

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<400> 214

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tggaacttta aactgtttgc ctggcccaaa ggaaagctct ttcgggctgg tgacacactt 180  
gctttcaatt atagccctgg gactcacaat gtggtggccg tgaacaaggc tggatatgat 240  
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 ctcccttccg tggttacca gaagaggagg aggagggtga ccttcaccta cgcgagcctt 180  
 gggccaagag aaaacgctcc aaacgacctc gttttgagtc ggaggaagag tacttggttc 240  
 tttgcctcat catgcttgca caaagcggta ac 272

<210> 216  
 <211> 268  
 <212> nucleic acid  
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 <223> Clone ID: 700553558H1

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 cctctccgaa tganaactgg ctatggtgag cgttcttcgg aggtaaaatg cgcaagtttt 180  
 aggctgctgt ggaagcacac aacatccgag cctttaaaac cattcctgaa gagtgcgttg 240  
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<210> 217  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553559H1

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 aaggcttttg gcttggaacc cgctgcagct aaactcattt gctcccttaa gcccgatctc 180  
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<210> 218  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553560H1  
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 ccgacctgaa cgtgattccc atctacagca aatgctcacc gttcaaacca ccaaagtcag 180  
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<210> 219  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553561H1  
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 ttgcaccacc atcaaccacn atgtctctct agccacaaa gtccgcaaac ccaaaaacc 180  
 tcatagagtt agcnagaaac accccaaaag attcattttg ttttaaagcg caacttatgg 240  
 catccattgc caccttcttc aacaagttcc tctact 276

<210> 220  
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 <223> Clone ID: 700553563H1  
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 aataaggcca catgctccct tcaggctgat cttaaggact tggctcacia gtgtgttgat 180

gctactcaaa attgcaggct ttgcccttgc cacctctgct ctggttgttt ctggggcaag 240  
tgctgaagga gtaccaaagc ggctaacctt tgacgaaa 278

<210> 221  
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<213> Glycine max

<223> Clone ID: 700553564H1

<400> 221

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agagaattga ctgagaagaa gaacacagaa atggggtccg aactgatttt cagagggcac 180  
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<210> 222  
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<213> Glycine max

<223> Clone ID: 700553565H1

<400> 222

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aagttggcag caacggcgtg cccacctcgg gatctctcgg tcgtgccctt tacgctgccc 180  
caatccagat ttgggacagc gaaaccggca aggtagccag ctgggctaca ncctttaaat 240  
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<210> 223  
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<212> nucleic acid  
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<223> Clone ID: 700553566H1

<400> 223



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<210> 224  
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 <212> nucleic acid  
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 <223> Clone ID: 700553568H1  
 <400> 224

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<210> 225  
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 <213> Glycine max  
 <223> Clone ID: 700553569H1  
 <400> 225

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<210> 226  
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<400> 226

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<210> 227

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553571H1

<400> 227

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<210> 228

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553572H1

<400> 228

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 gtccctcgag accaaccag gtgaagccca tgaaggatcat gatgggtgat gcaagagaaa 180  
 agctagaaca tgtccatgtg cctaaacaca acaagcacca ccagcccctc cccaaaaaca 240  
 aagttgctcc taccacccc gtaggttgt 269



tattatcccg ttcnttccgt ggagtcaatg gnncagttgc tcangaatnc atcattgacc 240  
tgagaggctt taagaatatg t 261

<210> 232  
<211> 240  
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<223> Clone ID: 700553577H1  
  
<400> 232

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tgctgaattt tattttattt tattgtataa tagtataatt tattcccccc ttttctctac 180  
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<223> Clone ID: 700553578H1  
  
<400> 233

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<212> nucleic acid  
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<223> Clone ID: 700553579H1  
  
<400> 234

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aaacggatgg agagctggaa tctattcagt gacacatatg aggagttcca aaattacaca 180

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<210> 235  
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<223> Clone ID: 700553582H1  
  
<400> 235

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<210> 237  
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<223> Clone ID: 700553584H1  
  
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<210> 238  
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<210> 239  
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 <213> Glycine max  
 <223> Clone ID: 700553586H1  
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<210> 240  
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<212> nucleic acid  
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<223> Clone ID: 700553588H1

<400> 240

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aaccggttcg gtgttgaagg gcggaacgga ctctaagatc gggctgaagc tgtacgacaa 180  
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<210> 241  
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<212> nucleic acid  
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<223> Clone ID: 700553589H1

<400> 241

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ctactgtgga agtgacaaaa cgaccaaagg gttttttaag tcatacaaaa acctacaatt 180  
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<210> 242  
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<223> Clone ID: 700553590H1

<400> 242

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tgagcgggtg cccttactgc cgtcccaagc actggaagcg caacaccgcc attgccatgg 180  
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269

<210> 243  
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 <400> 243

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 cactaaaatt ctattcaatt catctatggc tgcctcttct tatgctatgc aatcaatcct 180  
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<210> 244  
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 gcagccaaag tgagaagagc tcaagaag 268



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 acatctacct gctgatctag ggagtaatat ctactaaca atccttttgc tggataacaa 240  
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<223> Clone ID: 700553619H1

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<213> Glycine max

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 aactgggnca gcagttgagt atgctgtttt gcatcttaag gtgtctgaga tgtggtcatg 240  
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 aagcacgctc acaggcaciaa tctcagcgag tgcgcttcgg atctcagcga gtctgtttcc 240  
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<400> 290



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 aattcatcga aggcaagcac aaggagttgc ctccaaccta caagaagctt gttctcggtc 240  
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<212> nucleic acid  
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<223> Clone ID: 700553656H1

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<223> Clone ID: 700553657H1

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<223> Clone ID: 700553658H1

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281

<400> 296

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<400> 299

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 taagaaatct ttcacacact atttttgcat cacctacgct gcctaaaccg tttcttcaga 240  
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<210> 305

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<223> Clone ID: 700553670H1

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<400> 307

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<223> Clone ID: 700553675H1

<400> 308

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<400> 310

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<210> 315  
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<210> 332  
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280

<210> 335

<211> 280

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<213> Glycine max

<223> Clone ID: 700553711H1

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ccaatgcttg cgctcctctc ctcgatttcg cacctctttc tcaatcagcg aagagcggag 180

gttcgcggtt cgagtggagg atacggaact gtgtcggcac cgaagtcagt tgcgtctgat 240

cctgatcagt tgaagagcgc cagagaagat atcaaggagc 280

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<400> 336

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cactgccaac cgtaccogga ataccaact tttgttggtg ttcttgacag ccttcgctaa 180

ttacgtnatt gcatttgctg cccaaggcgt ctgttgatgat tgtntttctc tttggaactt 240

ttttttggtt aagtcacat ggccttgacg aacattggg 279

<210> 337

<211> 106

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553713H1

<400> 337

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 cgaaatccag ngnaagacat acttggatg aagggaaactg gaactgctaa tcagtgccca 180  
 accantgaag gtggagtgga ctcatctgcc ttcaaggcag ggaaatacaa ggcccagaag 240  
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<210> 341  
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 <223> Clone ID: 700553718H1  
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 cactcgaaga cgatcttaca ttcaccgcac gctggtcgag cttogaatca tgcgagctca 180  
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<210> 342  
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 tatgcttatc ccgaatagct tcttccgcat ggggtgttct gctgttctgc tttccaaccg 180  
 tcgaagggaac tatagccgag caaagtaccg tcttgaacac attgttcgca cgcataaggg 240  
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<210> 343  
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<223> Clone ID: 700553721H1

<400> 343

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 ccatgttact ggcttggttt gaatctaata gtaatgcact tgctccagag gaagcagagg 180  
 agataaatga cgaatatgat attaataatta tttcagataa ttcagccatt agaaataana 240  
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<210> 344

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553722H1

<400> 344

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 tcctcgcaac gacgtgtncg ccgacgcgca atcctgcaac ggcatacctcg tctcatacgc 180  
 ctacaccggc ggcttgoggt tgccgcccga cgtctccgac tcggctaagc agccgtaccg 240  
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<210> 345

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553723H1

<400> 345

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 aactcacaac aacaatgcaa cctcccaccc aataattccc atagtccctgc tcctatgcct 180  
 ggaaggaatc gctctgttgg aaaatataac aacagtggca ctcagaagat taaaggtctg 240  
 agtaacaaaa ccggcttcac cgaaggcaac gctaacggag c 281



ctcctccata ccctccctga ncacccacac tctcatggcc cgaatccgcc accgtagaac 180  
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 aaaacccctt cccaactctt ccacctgaga ctogaacgcg a 281

<210> 349  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553727H1  
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 atttttgaag atgctacccc tggatggtga gggacttggt ttgggatgac gagttccgac 180  
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 ctggaactcg ttggatcaat cttctcattc aaaatgatgt tcgccttgaa atatgtaccg 180  
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 gtacgtcgga aactcagatc tacactcgag cgcgtgaacg tgtactacaa cgaagcttcc 180  
 tgcgggcggt ttgtcccacg cgcagtgtgt atggacctgg agcccggaaac catggacagn 240  
 gtgcggactg ggccgtacgg gcanatattc cggcccnt 278

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 <223> Clone ID: 700553730H1

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 aggctgccaa atgtaaaaca ttgctgaagc tgacaattcc gcgtataaag ctgctaagaa 180  
 acagnncgag agattcagtt gaagaacatg cggcgtgaga ttgccaagct acttgagact 240  
 ggacaagnan gccacagctc gaattagggt agaacatata a 281

<210> 353  
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 <213> Glycine max  
 <223> Clone ID: 700553731H1

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 ntcngtcgaa gtgcttcgac cgagcacanc ttcccccggc ggnacaactc tgccaccccg 180  
 gaggncnaga gcangatngc agagtcgtnt ggcttcggta ncctcgactc cctcgtggac 240  
 gccaccgtgc ctaantcgat acgccttaag gatatgaagt t 281

<210> 354  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700553732H1  
  
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 acagcaagaa gggcagctgc agcagagaag aagctatgtg ataacatgtg cagcagggtga 180  
 ctncagaca gtggtgattg gcctggctgc agactcaggg tgtgggaaga gcaccttcat 240  
 gaggaggctg accagtgtgt ttggaggagc agcagagccc acca 284

<210> 355  
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 <212> nucleic acid  
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 <400> 355  
  
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 gttctgtnc atggtggaat gagcttctga gtgtggaaaa aaaggacttt cgattaaacc 180  
 aangaggggt gatgctctac ttttttgag tatgaagcca gatgcaagtt tagatccatc 240  
 aagcttacat ggtggtgtgc cagtgatcaa gggtaataaa tggcc 285

<210> 356  
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 <223> Clone ID: 700553734H1  
  
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 ttggtgaana ggggtgtgaa tgangcaagg tgatgtgggt agtggcagca ccagncattt 180



taacaagggtt ctccaccttt ggtatcaatg ttataagcca agcatttatt ggtcatattg 240  
gttcaaggga acttgctgct tatgctcttg tgtncactgt tc 282

<210> 357  
<211> 279  
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<213> Glycine max  
  
<223> Clone ID: 700553735H1  
  
<400> 357

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cgctggatgat tctgcttctg attnctnct ctgcttcna ggtagccgta gctnnaagaa 180  
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catggtcatg gntcggntc tnancnctgn caccncgggt 279

<210> 358  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700553736H1  
  
<400> 358

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tacgtcggaa actcagatct aactcgagc gcgtaacgt gtactacaac gaagcttctt 180  
gcacgcggtt tgtcccacgc gcagtgtga tggacctgga gcccgggaacc atggacagcg 240  
tncggactgg gccgtacggg cagatattcc ggcccgaca 279

<210> 359  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700553737H1  
  
<400> 359

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 ncagaggaga attgcnttct anagcgttat ctgcagaga tgggnnctgn ntctctgctt 180  
 aggangtttc tgtgctggaa tgctcttcac tacaaggata tggactatac ctgaaaanaa 240  
 caanggacta gcacggccan cagcctcaga agctgaat 278

<210> 360  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553738H1  
 <400> 360

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 ccgatgtgtc cgtcgangga ncnactcaga nctgatacn tccgcnatca agatccantt 180  
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 agtgaanaag aaggacaaaa ttatagcaga naaagaaaat tcca 284

<210> 361  
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 <223> Clone ID: 700553739H1  
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<210> 362  
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tgggctgatac ataattcaag nnaggtctgt gnac 94

<210> 363  
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<223> Clone ID: 700553741H1

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aagtgcagc ncctcctaga aagttggctt ccctgacacc gacactgaca ccctacacgc 180  
caccaagaag agtttccctt tcatgagagc aatgagagct tctgagaaca agagtgatcc 240  
ctgtgggggg aggtacattt atgtgcatga ccttccctcc a 281

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gcttgtgcaa gaacggttca gatgttgcac cttctttcag ctctaaatgg cagcactctt 180  
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tgtagttcca tggctaacaa aaaggatata tacaac 277

<210> 365  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700553743H1



<223> Clone ID: 700553747H1

<400> 368

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<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553748H1

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tcttaagagt gctgagtgcg ganaaagggt ggggcacctg gattcaaagt tgcaattttg 180  
ggggcttctg ggggaattgg tcaaccctt tctttgctga tgaagatgaa cccattgggt 240  
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<210> 370

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553749H1

<400> 370

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gtgtgtggac ccccggttat gataaagcaa tatctggaga aaaggccaag gactggacac 180  
aaggagaggt ttctggcatc ctaaaagagg ctggatacac tgaacaaatg gtatacaaat 240  
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<210> 371

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553751H1

<400> 371

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 cgccaccgag aaagccgcca ggacgccggc ctctctcacc cctcctcccc ctctctccgtc 180  
 atcctcancc caagacgacc tcaagaaaat cgccgnctac aaggccgtcg agtacgtcga 240  
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<210> 372

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553752H1

<400> 372

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 tggcaaatga gattggtttc ctgtgatgat caaggcaaca gctggtggtg gaggacgtgg 180  
 catgctctt gctaaagaac ctgctgagtt tgtgaagttt ttacagcaag ctaagagtna 240  
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<210> 373

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553753H1

<400> 373

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 caacctatgn atttgaccag accnccctnt tctgctcagg tccnaganga agagaacaga 180  
 nnagctatcc ggttctgtca gtncaagana ttctccantt nganataatt gacgtataa 240  
 ncctaactca tcaactctctt gtanatttna nnttagtt 278

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 ataatggaac tggaatggca aggctggttt tgcaggtgat gatgctccta gggccgtgtt 180  
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 <400> 376  
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<400> 378

<210>	379
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<400> 379

137



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<210> 381  
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<210> 382  
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 gctctctgaa gattcatgcn ttaccanaaa atgggaaccc acaaagggtg tgcctcagge 180  
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 atctgagaac tcaatcacga agcccttctt ggcatccaag gacgcggacg ttcttctnct 180  
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 caccacgtgg agttcaccag ttctaccgc aagccgggtg ggtggagcat gaccccatgg 180  
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<223> Clone ID: 700553778H1

<400> 393

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<223> Clone ID: 700553779H1

<400> 394

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cccactccgc ngcngncgtc tcnngcctcc ggggccgcag nncctcacct acctggacgg 180  
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<223> Clone ID: 700553780H1

<400> 395

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tctagggatt cttccgacgg ttcgctggaa agttcgaaca cgatttcgtg gctaagctca 180  
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277

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<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553782H1

<400> 396

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aagctgagaa attttcgang aagacnaaga gaagagggat gctattgaca cnaagancca 180

ggcagacttn ttggtatacc agacananta agcnattgaa anagcttggt gacaagttcc 240

tgggncnttg taanagaagg tgatccaaac ttg 273

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<210> 398

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 ntttnccgaa ngngccaagc ntcttcctaa tactttaaga gtattggnat ggtggagatg 180  
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<223> Clone ID: 700553788H1

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<210> 402

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<223> Clone ID: 700553793H1

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<223> Clone ID: 700553794H1

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ccattggatc ttgtaagaac acggtctggct gcacagacaa attttaccta ctacagaggt 240  
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<210> 419

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553817H1

<400> 419

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<210> 420

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<223> Clone ID: 700553818H1

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ttggttcaag tttcttctag taagcatcaa cagcaatatg ttgctcactc tcaaatttat 240  
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gtttgtggac cttctcagcg aggagttgaa gttgcaagag tctgttactg aagcaaacac 180  
tcggcacatg aacataactt tggctgaagc aaaaagagtg gcgtctcagt accagagaga 240  
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<223> Clone ID: 700553824H1

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 ttntaagcaa ttgtatctta cccgtggtaa aatgaaaaag gtaatcaatc ttnttttgtc 240  
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<223> Clone ID: 700553826H1

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 gagccaaacc cttctggcca ctgctattgg aggcaaannn nnnnnnnnnn nnnnnnnnnn 180  
 nagtcctaga agactcattg tggtagctgc tgctgcacca aagaagtcag ggctccctgg 240  
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<223> Clone ID: 700553827H1

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atcaagtgat tcaaccaatc aacggtgatc ccttcattgg aagccttgaa accccagtta 240  
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<223> Clone ID: 700553830H1

<400> 429

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gtggnaaaaa cttcaaag 258

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<212> nucleic acid  
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<223> Clone ID: 700553831H1

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<223> Clone ID: 700553832H1

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gcgacgagga gtttaagaag ttcattgggca acccttccat cgaagccgct ataaagctcg 240  
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gaagcagctc tgcaggggaa tttggaggct gtttagagtc caacttcggg gcctgtgcgt 240  
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 cgacggcttt cgtttcgggt accaattcaa agccccaact cccacatctt cccgtttgat 240  
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 aggctccttg tcaaagaggg tcaccaggtg actttattca caagaggtaa agcgcctgtc 180  
 actcaacagt tgccaggtga atcagacagt gattatgctg atttttcttc caagatcttg 240  
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 aagaactgta aggagggcct ttttataaca tggatgaagt agctgaagct gaaatctttt 180  
 tgtacttctc aacaagtgc cggagaacat tgaaaaataa ataaggctta tgacaaggcc 240  
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 gtaagaggcc acaataaggc attgcaggat caattggtat ctcttaaagt ttcacaagac 180  
 gaggtataa agcagaaaga aatttttagga aatgagctca aatgccttcg tgaagagtta 240  
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 aattcccaac aagagtacgt agcacaacaa gcaactagac tgcaacaacg aatacaactc 180  
 cacaaagggg aacctctgca acagtctccc gtcatgcacc tcctacctca ctttcaagtc 240  
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 accaancaac tggtgctgat cagagggcca ggaagatcgc taggttcaa cgtcagagag 240  
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 gtctctttcg ctctggtggc tgctccatga tgtttacaaa caaggcttct ntcaagagcc 240  
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 ggtggcatcc aagttaggag ccaaaaaggga ttttcctatg gctttgtgga gtttgaagtg 240  
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agcctcttgg ggtcgttcca agaacgcgtt ctgagtcctt ccacgtggct cacaaggtcc 240  
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 gataggtggg ttgaaatctt ggacgaggaa aaaaacccaa tacaagaggg ttcaaagatc 240  
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 cancaaacgg tcgggcaccg ctggttcctc cccgtcgccg ccaccccccta tgaaaaaggc 180  
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 actctcga 248

<210> 459  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553866H1  
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 agatgtaacc ctctctcagc atcagctctc accatcaaag ctgcttcta tgctgacgag 180  
 ctcgtcaaaa ccgccaaaac agtggcctca cgggggcgtg gtattttggc gatggatgag 240  
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<210> 460  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553867H1  
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 ttgtgcaaga cctggtggct tccccagcac ccaggtcatt ttaccccttg ctcatactat 180  
 tgagcacgag gaggctcctg aggtagttcg aatagagggt catgcatttt ctcccagga 240

tgttgcggtg gcacgtgata tgtatctatt gcagctgtgc agtggagttg atg 293

<210> 461  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553868H1  
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 aagaatctga aaagatcatt gaagaaataa gaaacagaga atggggattg ctccatcatgg 180  
 atgaggtgca tgtggtaccg gcccatatgt ttcgtaaagt cattagtatc actaaatctc 240  
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<210> 462  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553869H1  
 <400> 462

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 aaacaagtca ctccatcttg aaaaagaaac tacagggctg aatgaagaga actcaaagct 180  
 taatcagnga atagctagct atgaatctaa attaagtgat ttacaggaga agctctctgc 240  
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<210> 463  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553870H1  
 <400> 463

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ttgaaccgca tcaaactgca tcttttgggt gaactctctc cactggccac tcccctaaac 120  
tattttgatg aatcaaacc tagccctct gaatcttcca attcccaatc ntcttctggt 180  
tctcttaacc actacttcac tgacctcttc gaattcgact ccaaacccca aataatcgac 240  
ctccaaactc caaaacact aacttcagct cagaagaaac ctcaattgaa t 291

<210> 464  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700553871H1

<400> 464

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agtatgggtt taagcttaaa agtnactttt ttttgcgtt tgcnttancc aaagtaaaag 180  
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taacttgaac cataggataa aaaattagat gactcatatn tgtatcttag 290

<210> 465  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700553872H1

<400> 465

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tcacctgaaa cacnatctga taaaaccagc caagtnttgg aagacaaaac acagtctgat 180  
tatntaagtg ataatgagan tgctgtgcaa acaagaaagc aggnnatata ganagatttg 240  
accagagata gttncttagc tccaaggca ttattgagaa agtcttctcg att 293

<210> 466  
<211> 292  
<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700553873H1

<400> 466

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tccggtcacc gctgatcatc ctccgaagac cgggtcaacga gtctgcctca gctcgggttcg 180  
gttccacttt tgggttttcc agaaagcaac ggttcagttc agtatgtatc cccaaacaca 240  
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<210> 467

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553874H1

<400> 467

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cccatcagcc ccagaagtgg gaagggtgag catgaggaag accgtcacca agcaggtctc 180  
ctcaggaagc ccatggtacg gccagaccg agtcaagtac ttggggcccat tctctggcga 240  
gcccccgctc tacctaaccg gtgagttccc aggcgatacg gctggga 287

<210> 468

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553875H1

<400> 468

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catgcagctg ttaattttgg gcaataccct tatggagggt atatcgtgaa ccgtccaact 180  
ctagccagaa ggtttatccc agaagaagga accaaagaat atgatgagat ggtgaaggat 240  
cctcaaaagg catatctgag aacaatcaca cccaagttcg agac 284

<210> 469  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553876H1

<400> 469

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 aaatccatgg ctggcttccc caccgaggaag accaacaatg acattacctc cattgctagc 180  
 aacggtggaa gagtacaatg catgcaggtg tggccaccaa tnggcaagaa gaagttcgag 240  
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<210> 470  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553878H1

<400> 470

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 ctnnnnnnnn nnnnnnnnnn nnnnnnnnnn tctatcaatt tctccttctt tnttatntac 180  
 acntcttcaa attcnacaca ctttgccact catgctgcct tcagcatcag tgccagcgcc 240  
 gccgagaaga agaaggtgct catcgatcaat accaacagcg gcg 283

<210> 471  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553879H1

<400> 471

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aaagctcaaa ccagataaaa gaggaagca atgattccaa ttatgatagg naagctgaaa 180  
 taaaagtctt tgatgattca aaaactggtg ttaaaggctt ttagattctt ggtgtgaaaa 240  
 agatcccacg catgttcctt tccggcatcg acataactga aaaacg 286

<210> 472  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553880H1  
 <400> 472

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 tgaggacagc ggaggagggg tatttgagta ctctggctgg gtttatcact tgggagtga 180  
 ttccattggc catgagtact gtcattctcg attcctcttc attaggggaa agtatgtctc 240  
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<210> 473  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553882H1  
 <400> 473

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 agctggctcg cttggtggaa ccaccaata cactgtcaac aaccagatgg tgaatgccac 180  
 cctcatgaac attgctnata accccaccaa tgtgcagctt cctggtatgt ataacaagga 240  
 agagaatccc cgtgtgccca tcacgtcac cggtaacgat ttctccacac tct 293

<210> 474  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553883H1

<400> 474  
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 ccctctccga atgaaaactg gctatggtga gcgttcttcg gaggtaaaat gcgcaagttt 180  
 taggcttgct gtggaagcac acaacatccg agcctttaa accattcctg aagagtgcgt 240  
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<210> 475  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553884H1

<400> 475  
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 tactttttgc cttgaaaact tacaagatat accaacatta aaaaaagaa aaagtatata 180  
 ctatatgtac aaggtcactc ccaaagtact ggtttttcct taaaaacaaa tggtaaataca 240  
 aaacaattac cgnacacat tactgtttcc acctcccca agtgcnacca tgg 293

<210> 476  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553885H1

<400> 476  
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 tgcttgctca acacaaagat cactggggat gatgctccag gagaaacttg gcacatggtc 180  
 ttcagcaccg agggagagat tccttacaga gaaggacaat caattggggg aattccagat 240  
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<210> 477  
 <211> 289  
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 <213> Glycine max

<223> Clone ID: 700553886H1

<400> 477

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 acaatcttaa gactactaaa gggacagctg atggtctacc agctgtgaaa cagtgtgtgca 180  
 aaacaaacgt gcctgcatgt aatttttagtg acaaagtggg acagaagtct attgataagt 240  
 taattgaaga agaattcaaa gaattgggag acaagaataa gaggtgctt 289

<210> 478  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553887H1

<400> 478

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 tgttttggca aaaacagaaa gacacttggt cagagtcaga gaggggctat tcgttgtgag 180  
 gcttctnctg cttctgatgt tgtggctgat gccaccaaga aagctgctan tgtctctgct 240  
 cttgagcagc ttaagacctc tgcagctgat aggtatacna aggaaagga 289

<210> 479  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553888H1

<400> 479

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 tgttttggca aaaacagaaa gacacttggt cagagtcaga gaggggctat tcgttgtgag 180

gcttcttctg cttctgatgt tgtggctgat gccaccaaga aagctgctag tgtctctgct 240  
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<210> 480  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553889H1  
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 gngcgggtggc cctnactgcc gtcccaagca ctgnaagcgc aacaccnna ttncatggt 180  
 cggcgtcgnt ctcanctgca tccccancgc tatgaaatcc gcncaantcn agcaacggcc 240  
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<210> 481  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553890H1  
 <400> 481

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 cctcaactca gacgctctca catagcacta ccaacttcaa ccaccatttc attgctcgct 180  
 ctctttntct ctncnnacga ngccaaagcc gctgtcagca tcgccaagga ccagattgtc 240  
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<210> 482  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553892H1  
 <400> 482

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 tggatcaagtc tctagtcaac ctgtgaattt tntattcaag tttaaaaata tanagagcaa 180  
 gacnttttgt ttttcgagga acaagagcag atattgaaaa tgggtttcca ggatttatac 240  
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<210> 483  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553895H1  
 <400> 483

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 atgaaggatg aggacgggct tccgacgacc gccgccacga agaaggaaaag catggattcg 180  
 agtctgtttg ggaaaggag gtacaaattc tgggcgttag cgggccatct tgettctggc 240  
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<210> 484  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553896H1  
 <400> 484

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 gctgtggact ctgcgatttc gtccccattg ggtcccccg cctgtgagaa ggacgcaaag 180  
 gcgttgccgt tcatcgaaga aatgactcgc aacgccgacg ccgtccagga gagagtcctg 240  
 gaggagattc tcacacgcaa cgtccagaca gaggaccta aacgctt 287

<210> 485  
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gccaaaagaa gaggattatt tctatgccaa cccacaggag tgtttggaac catcagcat 299

<210> 488  
 <211> 295  
 <212> nucleic acid  
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 <223> Clone ID: 700553906H1  
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 tgtagaatga gccaaccaac ggtgatactt gccactgcga gctatgatca cactattcgt 180  
 ttttgggagg ccaagagtgg ccgttgctac cgcaccatcc aatatcctga ttcgcaagta 240  
 aaccggctgg anataacccc ggataaacgc ttcctggctg cagctggcaa tccac 295

<210> 489  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700553908H1  
 <400> 489

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 tagctcttat ggaaactcaa caccaacaac ccaccatcaa gtctangttc agacgcacatc 180  
 gtgtctactg tggtagcagc cctggcaaaa accctagcta tcagctcgct gctattcagc 240  
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<210> 490  
 <211> 293  
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angnngcgtn ggnaatgnnt cctctcncgg tnaentnctt ntnaattgga ttttcggggg 240  
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<210> 491  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700553910H1  
  
<400> 491

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<210> 492  
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<212> nucleic acid  
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<223> Clone ID: 700553911H1  
  
<400> 492

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ctcaattgtc gaaagatgag tacaagtggg taatgagatt gacgaacttg cgttgtttga 180  
gcgaaacaaa gcagagatgt acctgaagga gccgctatgg agtgaaacag ggaaaggcga 240  
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<210> 493  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700553912H1

<400> 493

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gtcctccgac accatcgata acgtgaaagc ncagttcaag acaaggaagg gatccacact 180  
gaccagcaga gacttatctt tgcggtataa cagcttgagg atggtcgaac ccttgccgac 240  
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<210> 494

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553914H1

<400> 494

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ccatagctaa ttgtgagaat ttcggtcncc tgttttattt ttttattttg cttttttcgg 180  
ttgccctctc tttaaatgct cctcctatt ttttttggtc tctctctcgt tttttgaaga 240  
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<210> 495

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553915H1

<400> 495

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aaaaagcctc tcttatatct cattanctct ccgcttgcaa tcaccaaaagg caaaaaaat 180  
aaaggggtac gttaacgatg aagcgcgctt tctccgtcga caccgcggag gataacaaaa 240  
acaacaggaa cacgaaaaag acaaagcttg attcggaga ggaagaggaa cacgggaca 299

<210> 496  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700553916H1

<400> 496

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 tctctttggt ccagggccgg ttaacattcc ggaccagatc atccgggcca tgaacagaaa 180  
 caatgaggac taccgttctc cagcaattcc agctatgaca aaaactttgc ttgaggatgt 240  
 caagaagatt ttcaagacca ctactggaac cccattctca tccctacaat ggt 293

<210> 497  
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 <212> nucleic acid  
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<223> Clone ID: 700553918H1

<400> 497

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<400> 498

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Sequence 66750

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agcctgagcc tgaccaggag cctccttctc ttatttcttt tgaaacaaca gaaacctctg 240  
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actagcagat gctagaaaaa agaagagaaa gcgacatttc actcttgagc aagagcttgc 240  
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<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553924H1

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cgaatcagaa gacagagata tctatcagga ctgaaaaagc aatttagaaa gagaaatccg 180  
aagatggaag acttagaagc aaagatatca gattcaaaac cagatgactc aagtcctcta 240  
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<210> 503

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553925H1

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<223> Clone ID: 700553928H1

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 ataggagctt gggagctcgc aatggaggca ggccatttaa atatgaagga aatctttatc 240  
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<223> Clone ID: 700553929H1

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 ttgagaagga agctgctgag atgaacaaga ggtctttcaa gtatgcctgg gtgcttgata 240  
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<223> Clone ID: 700553930H1

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 attacaaaagt ttgaccactc attgttctga tctactgagta aataatttct ttttagatgc 180





gtctacctct acannggtag nagatnttaa tagcttccct agccggngac cgtactccat 60  
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gaagctgtta gagggcgagg anttggactt tgcttacgac agcatctctg cattcgctga 180  
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gtaactgcc acaacccttc gccgcacggt gggcgtgggt ctttgccttc tgaaggtggc 240  
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 atggttgcac gtgctgggat ccctcttgag gatttggagt ttgtacaatt tcacccaaca 240  
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 ggaagagtgc aatgcatgca ggtgtggcca ccagttggca agaancngtt tgagactctt 240  
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<210> 515  
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<212> nucleic acid  
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 ggcgccttca cctgcgctga agtatgcggc actcgcgtcg ttcagttggg accaggatag 240  
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 ggattttgct ttgaggttag agaaactagc agagcagctg ctggacttgt tgtgtgagaa 240

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<223> Clone ID: 700553943H1

<400> 518

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<223> Clone ID: 700553945H1

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tggtctgttg tcggagaagt tccttgacac caacatatct attccttttg ctggtcctgc 240  
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gcgagattng tcaggctttg ttgagacaag acaacaactt ttgactttga agccaaatca 240  
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<400> 523

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 ggggaagagg acgtaccggt ttatcgtttt taagatgagg agaagcagaa gcaagttatt 240  
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<210> 524

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553950H1

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 aagcagggtt atgtgattta ccgtgtncnt gnacgaaggg gtggccggaa gagaccagtt 240  
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<210> 525

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553951H1

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<212> nucleic acid  
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<223> Clone ID: 700553971H1

<400> 542

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 ccttcgccga gcgtctcggt gccttcgcat gtgttgaagg tattttcttc tctggaagct 240  
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<223> Clone ID: 700553972H1

<400> 543

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<223> Clone ID: 700553974H1

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 aaccggatgg tgggtggtgct cggaatcgta ttgctgctca gctttgtgag agtggcggtt 240  
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 <213> Glycine max

<223> Clone ID: 700553976H1

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<211> 211

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553977H1

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<210> 547

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700553978H1

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gatcagacag acctttgtgg tttgcatcaa agcaaagtct ttcctacttg gatggcagcc 240  
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 aagaaggact ggtacgatat caaggcccct tccgtctttc aggtcaagaa tgttggcaaa 180  
 accctcgtct ctcgtacca ggaaccaag attgcttctg aaggactcaa acatagagtg 240  
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 gagccaaacc cttctggcca ctgctattgg aggcaaannn nnnnnnnnnn nnnnnnnnnn 180  
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ccttcctccc caagaggatc cgnnnnnnnn nnnnnnnnnn nnncggtcac ctctctctc 240

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<400> 551

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acgtttcntg ctctgcntcc cccaccaca atttgcctc aatttccctg atccctatct 180

anaccaactc acattaaccc tcaatttccc aaacgggatc gtgttctctt tcagagagca 240

ggtcgccgaa gaagtaagaa aaccaatggc cagaaaccga aagcgcggcg gcggcg 296

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<223> Clone ID: 700553983H1

<400> 552

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gttctggagc tggagcttca gctcccagtt cagccttctt tgggaccagc ttgaagaagg 180

ttattgcctc aaggggtccc aacagcaagg tttccggtgg aagcttcaag attggtgctg 240

tagaagagaa gaaagagatt gaagagaccc agcagaccga caaggacaga tg 292

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<223> Clone ID: 700553984H1

<400> 553



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<210> 554  
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<212> nucleic acid  
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<400> 554

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<210> 555  
<211> 286  
<212> nucleic acid  
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<223> Clone ID: 700553986H1  
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cctatccctt atnacaacca ctctcacaca cgcccaacaa gccaaccttg ttgtcgccga 240  
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<212> nucleic acid  
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<223> Clone ID: 700553987H1

<400> 556

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<223> Clone ID: 700553988H1

<400> 557

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<213> Glycine max

<223> Clone ID: 700553990H1

<400> 558

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tgccctctggt ggcttttgatt gcaacatatg cctggagtgt gt 282

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 ggtctccgcc atggccaagg agttgcactt caacaaagac ggcaccgcaa ttaggaagct 240  
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<400> 564

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<212> nucleic acid

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cttgctcaac tgtgtagcct tgcatacatc aagattccaa acttgggaaga ggattttggc 240  
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<210> 566

<211> 286

<212> nucleic acid

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<400> 566

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gacgtatacg ccgtcggtac gctctccggc gaccctctcc accctcaggg cgccaccacc 240  
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<400> 567

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cttgaggatt gatgaagaat ttgagagaga gaaccaagag c 221

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aggggcatte agatcctttc ttcagccaac tgggtacatgc attgacagct agtggatact 180

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<400> 577

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tatcatgatg gtcaaaccac aaatacagtt ctccaggga ctgatgaaca aacaataccc 180  
gatgtgaggc tgaccaaact aagggtgga acaaatggca tggctatctt cacatttgat 240  
caaccctcag ttttcgattc ttcgggtgaa ataggcgata tcatggga 288

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<223> Clone ID: 700554018H1

<400> 578

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cctcatntcc cgcagtagca actgcgaacc aatctctctg agaaaaaaaa aatggcgctg 180  
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<223> Clone ID: 700554019H1

<400> 579

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cacatacant gcagtcaaac attattcttt gcatgacacg agcttcgcat ttatattttg 180  
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<223> Clone ID: 700554021H1

<400> 580

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 aacctgaatg ggtctggacc tggggtttcn ctcccagttc atccttcttt gggagcagct 180  
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 cagaagagtt caaatggtgg ccaagcaaat taggagagag ctttctacat atgcttctgc 240  
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tggcattggc ttacagaag gttgaggatt cgctagagat aacccgaatt ggacgtctga 180  
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<212> nucleic acid  
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<223> Clone ID: 700554027H1  
  
<400> 584

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caacgtgcac aactggcatg ggccgagacc aactgcctcg agtgggccag aacctttttc 180  
aacaacagtt tcaccaacgt cgccgtcggg gacggcgatg ccactgtcac gatcaagaag 240  
gtggagaagc tcgaggcgaa gctatgtcaa 270

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<213> Glycine max  
  
<223> Clone ID: 700554028H1  
  
<400> 585

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agttcactcc tttctcactt ttccgagca atgtcaatct ctgacggag ctttcatgaa 240  
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 gtgtgataga tgctgcactc acacttggtc gagaaaatac aaggcttaag aaagaatcgt 240  
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<210> 587

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554031H1

<400> 587

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 tntctctctgt ttctgacctt ccaatgttgn gtgtcactac atccaaaagg ggcgtgttac 180  
 taaccgctcc gccctcgtct ttcgaggata tgatactctc ttttaaacac tctctttcta 240  
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<210> 588

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554033H1

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 gtggtccaac caccgtaact ggatctcttg tggctttaag cctggtctcc atggtttcca 180  
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 agaaggacct aatggaggtc atgacatgct tgtgctagag caagaaagtg gattcgagat 180  
 catggtggtg taacacatat accttcattg ggaaaaactt ggcttcgata ctcggtgtat 240  
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 ccctggagga cgcggtaatg ccggagatgg caccaccacc ggatcctctt tgacaagtac 180

caccctgngt tcttcggcaa ggtcggaaatg cgctattttc acaagctccg caacaattct 240  
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<223> Clone ID: 700554037H1

<400> 592

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aatcaagtgt ggaccgtctt atgaanagat tacaaatttc atgtctgata ttgctgatga 180  
gttcaaaatt gttgttggtg aagcaataag atcatgtgct gaaattccct taaaatatag 240  
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<210> 593  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554038H1

<400> 593

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agcgatccgg caagatggag ctgccgagtg gactgatatt gtgaaaactg caagatttaa 180  
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<213> Glycine max

<223> Clone ID: 700554040H1

<400> 594

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<210> 595  
 <211> 279  
 <212> nucleic acid  
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 cacttactct ctgtccaggt gggattgggtg anaagacccc ccttatggga gtttgagtag 180  
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<210> 597  
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 acctaccctt cagtccaaac tttaaacaat attgcaccct tgaatctgct tccacaggca 180  
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<223> Clone ID: 700554053H1

<400> 600

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<400> 602

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<223> Clone ID: 700554059H1

<400> 605

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<210> 606

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554060H1

<400> 606

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<210> 607

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554061H1

<400> 607

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 ggtttaaata aagaaataat ataattataa gaaatttata tattacttaa tatagaatat 180  
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 tgggtgtgtt ttctgtgtga ttctgtaatt taattgctca ggtgtagtcc cattagggtg 180  
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<210> 611

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554069H1

<400> 611

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ggctctggacc tgggggtttag ctcccagttc atccttcttt gggagcagct tgaagaaggt 180

tattggctca aggggtcccca acacaaagat ttcctctgga agcttcaaga ttgttgctgt 240

agaagagaag aaagagattg aagagaccca gca 273

<210> 612

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554070H1

<400> 612

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aaagtgaac cacaagcaag ctgaaagaga agctattcag tgattttgat tcagatcgtg 180

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 gccaaagcttc ctttttacga tgtcaaacga tttgaatctt ccaaaagtgt aatacgcccn 240  
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 cgacaaggag cgacccgagt tacatggccg aagcagttga atgctccact tgaggctcgtg 180  
 gatcctgaga ttgctgatat tattgagctt gagaaagcta ggcaatggaa ggggctagan 240  
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 gctcagagat cgagctggcc gnggttgaga tgcccggcct catggcctgt ncggaccgag 180  
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 acatgggaaa acgaagcaag actattgctg tacaaagcat acaagtttag atacttcaca 180  
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 <212> nucleic acid  
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 <223> Clone ID: 700554080H1  
  
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<210> 621  
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 atctgaactt tttggcattt cnncaattat tttgaattct gtttctgggt ttttgttttc 180



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269

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 ttccgtttac gctgagccct caaagccgaa gtttccgttt tggaaaataa taagcctctc 180  
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 <212> nucleic acid  
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 <400> 626

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 attaccagtg ttaagggttc atcggaaccg gcattaacat cattggagga gtcgtcgaca 180  
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<223> Clone ID: 700554093H1

<400> 630

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<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554094H1

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agatgaactc atgagtccat tcaaacgctg tatattaaac aaccttcatc aagtacttca 180  
atttctggag atgacaatga tgcagaatgg gcagagtaca aaattaagga aaccaatatg 240  
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<210> 632

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554095H1

<400> 632

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acncacagat tctgtgatat atataccaat ggaggccctc aatgccttct ggcttgaccc 180  
ctctatctgt gctctctgat gacaaaaaca acaagaataa acacccttct gtttctgtat 240  
gcaaagtctc naattttc 258

<210> 633

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554096H1

<400> 633

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ccttaaggac tgctcttaaa gcataattaa gaggaagggtg aaaagaggaa atggaattga 180  
tgtaattgtg agaacatact caccttctca tttgaagggtg gatgggataa ggtggtactt 240  
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<210> 634

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554101H1

<400> 634

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tcaacctcag tgggtgccaca aggccagctc catctgcctc tagccctgcc tccttcaaga 180  
ctgtggctct ttctccaaaa agaaggctgc acctccaaaa aaagctgcag tgctgctcct 240  
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<210> 635

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554102H1

<400> 635

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tcttgcccat ggagataaga aggtgtgtgc tcgtcgatgt tttgcctcag aagctgagct 180  
gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccatttgc 240  
tggttgagc atgccaatcc aatacaagga ctcaatcagg actctaccat caatgg 296



gcccagcaga accactcccc acaaacta acagaaatgt ccctataacc tccgcaaata 180  
 cctttctggg aaatccagga gggtacttt gtgcaactct tgcaagagag ccgccaggga 240  
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<210> 639  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554106H1  
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 catctgaaat agtgggaaca atgggtgttg ctttgactgt gtgctcaatt cctggtcaag 180  
 ttgcatcaga tcgtttgggg ccaggaaaga tggaacttgg tcttggaatt caggagaacc 240  
 tggggcagct gtggctgata tcagcccgtg aagtgggtgt ttctcatgtt 290

<210> 640  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554107H1  
 <400> 640

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 ctgtgaccct tgccgtgctg gttttgagac ctcagcaacc acctacattg ccggtgctga 180  
 gatatgttgc aatgcaagag cagggttagca agaggttggt tacaccaaga aggg 234

<210> 641  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554108H1  
 <400> 641



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atctctaaca ccgcattagc ctgggctctc actcatgtcg ctcaactccac cgactccatc 180  
acgctcctcg ccgtttactc ttctcacaaa accggcagaa ggttctggaa tttttcgaga 240  
ctggccggag actgtacgaa cggaccggcg ggaaagttgc cggagcaant tccgata 297

<210> 642  
<211> 297  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554109H1  
  
<400> 642

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tctccctgt acttgacat attcaaccag aatttcatta tcaagcaaac atcgaatcag 180  
atgattggta tgggcttcaa tatggtacaa atgagacaaa catgtcagac tttttgaatt 240  
cagttgtgaa ttgggatcaa gtatcctttg aggatctcaa ttgtcaacag cagagct 297

<210> 643  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554110H1  
  
<400> 643

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gatcattatt gtttatgatg tgacagatga agagagcttc aataatgtga agcagtggct 180  
cagtgaatt gatcgctatg caagtgataa tgttaacaag cttttgggtg gcaacaagtg 240  
tgatctggaa gcaaatagag catgtcatat gaaacagcta ngcnttgcag a 291

<210> 644  
<211> 290

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554111H1  
 <400> 644

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 agagattctt taagtgattg gtttacttca tgcaaaatga ttggacttgc agccgaacac 180  
 ggatactttc taaggtggag taaagatctg aatgggaaac cagtcccttg tctcctggat 240  
 ctgattggaa aaagatgtgg aacctgtcag cattgtatac agaggcaacg 290

<210> 645  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554112H1  
 <400> 645

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 ctcccttcc ttgtacactg tctcaccctc ccaccacgt ttcttctttc atgccaattt 180  
 ctcancttct cccactccca tcttggaaga agaacttct tccaacaccc ccatcatcca 240  
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<210> 646  
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 <213> Glycine max  
 <223> Clone ID: 700554113H1  
 <400> 646

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 ttaatagcaa ctcttagttt ccaatgtcca agatgttggg agtgtttgtg ggacttttgc 180  
 tgttggtggg gttggctgcc tctgccaagt ttgatgaact cttccagccc agttgggcta 240

tggaccattc atccatgaag agaattctca aactcaaact tgataact

288

<210> 647

<211> 232

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554115H1

<400> 647

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ttgtgtttct agacgacagc atatggcnaa atcatgtttt acctgcacag aagccatccn 180

ccctagcatc caaagctact tctgaggtgg atgaaacatt ggttncagaa aa 232

<210> 648

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554116H1

<400> 648

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gaaacaaaag ccctttggct tgaagtgtat tcaacgcaca ggccattata ccttgtgcct 180

aatttaattt agaggaatga attaatgatt gactcctatc aacttaatca tgatctaata 240

cctgtgaaag acaaattgaa cctagaagct atgttagttg aagtcaaag ag 292

<210> 649

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554117H1

<400> 649

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cggtctgggac actgctgggc tttccgcaga cccagaaacc ttcgccaaga accgtgaact 180  
 cgaagtgatc cactccaggt gggccatgct cggagccttg ggctgctgtc tcccggagtt 240  
 gctgtcccgc aacgggggtga agttcggaga agccgtgtgg ttcaaggccg ggtccca 297

<210> 650  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
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 <400> 650

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 cggtctgggac actgctgggc tttccgcaga cccagaaacc ttcgccaaga accgtgaact 180  
 cgaagtgatc cactccaggt gggccatgct cggagccttg ggctgctgtc tcccggagtt 240  
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 <212> nucleic acid  
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 ttcaaccacac ttccaccatc aacttcttcn ttttcttcac cccgtacatt cacaaccctg 180  
 gctctcttca aatctaagac aaaagccgct cctgctaaga ctaagggtac aaagccaaag 240  
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<210> 652  
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<400> 652

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 atgcttggag caggaccctg acagcaaggt tgctgtgaa acctggcacc aagaccaaca 180  
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<210> 653

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554122H1

<400> 653

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 gacaaacact tcgccaacct tctgctgcat cagttgtgag atgcaacccc accaccccat 180  
 ctngcctcac catcagagct ggttcctatg ctgatgagct cgtaagacc gcgaaaacag 240  
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<210> 654

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554123H1

<400> 654

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 attgatgaag atagtctttt gactgaggaa gatttaaaga aaccccagct tccacctggg 180  
 gattgtgaaa ttgggagcac aagaaaagcc tgcaaaaatg cacctgtggg agggctgaag 240  
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<210> 655

<211> 293

<212> nucleic acid  
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 gataccgaca gcgtcgtgcg gtaatacgac acatttggtg tttgatcatg ttagccaaga 180  
 gattaagctc tttcttcaaa ctctccccaa aacctcagat ttccacttcc atgaagaaag 240  
 tggatgaaga gactgggcaa atactatggt agaaaggctg tgtcattgtc tga 293

<210> 656  
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 cgcgttgaaa tcategccaa cgaccaaggg aacagaacca cgccgtotta cgtcggattc 180  
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 aacaccgtct tc 252

<210> 657  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554126H1  
 <400> 657  
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 agtgcacaaa ctctatgaag gtggagttac actacctaca aactttctta gcaagatcgc 180  
 ccctatacca gtgatcaagg aaatttttcg aactgatggc gaacagttcc tcaagtatcc 240

accaccta aa gtgnatggca ggtggataag tctgcatgga tgactggatg aagaatt 297

<210> 658  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554127H1

<400> 658

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agaaaaattc tcttataaac aaggatgaga atgaaactag caagaccctt gtgggtttatt 180  
cagaacaatg ctctattggg agggatatta attctactcg agttgccatc ttgagagata 240  
gggaaaagat cgcattggatc cagatagatc gtactagaaa gtagct 286

<210> 659  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554129H1

<400> 659

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gaacaagagg agtgcagctt atgctgaatg ggagccccta ctatgcta atggcttaatgc 180  
ctattggcta atgtatctgc ctctgcatcc ttctcagaga aacaaatctc atcagtgttt 240  
caacaggctt caaatcaggc ctcaacatgc cagaactggg cttcag 286

<210> 660  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554130H1

<400> 660

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tccagacctt tgcagttgnc aagcagtggg ggatacaaga aggtgtggac agaagcaaaa 240  
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<210> 661  
<211> 297  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554131H1  
  
<400> 661

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atgagtatga ttacagccct gatgaaccca tcatcagcaa tgcattctgc accactaact 180  
gccttgcaac ctttgtcaag gtccttgatc agaaattcgg tatcatcaag ggcaccatgg 240  
accaccactt cactccttac accggcggac caaaggcttc tcgacgcgag ccaccgt 297

<210> 662  
<211> 297  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554133H1  
  
<400> 662

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actcagcgcc tctcgctctc gccggatcct atcaagggtta ctctccccga cggcagcgct 120  
aaggaggcga agaagtggca tacgacgccg cttgatgttg cgcgtgaaat ctgaagaat 180  
ttggccaaca gcgcgctcat cgcgaaggtc aatggcgtgc tctgggacat gactcgccct 240  
ctcgaggacg attgccagct ccagatcttc aagttcgacg acgacgaagg ccgcgac 297

<210> 663  
<211> 295  
<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700554134H1

<400> 663

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acaaatcagc aatgagagag aatctgttga ggcagggata cagaattgtt ggaatcattg 180  
gagaccaatg gagcgatctg cttggagacc acagaggcga aagcaggacc tttaagcttc 240  
ctaattcccat gtactacatt gagtagtacc ttcacctctc tcaacaatct agcta 295

<210> 664

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554135H1

<400> 664

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ctgagactcc cgtccgagag cgaggagatc tcgcgcgact actgcgacag ctggatgctg 180  
gcggtggaga cgaacaacgc cgggacgtgg aaccgcgtgc cggcgagttg cgtggacttc 240  
gtggcggaat acatcaccgg agatcgggtac cggcgggact gcgacgtgat c 291

<210> 665

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554136H1

<400> 665

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gagactttca tcattgaaca ataaggcatc agangcantt tccataaagt cttccttnga 180  
gcaaaggcaa caacaagaag ggagaagggg gtttctaaaa ctgttgcttg ganatgtggg 240  
anttggtttg cctgcactat tggcangtgg cgaagcttat nctgatgaac ang 293



tctcagcatt gacggcggag gaaccaccgc cattgtcgcc ggcgcttccc tcgtccacct 180  
 cgaggaccag atccgcgccc aaacctccga tcttcacgcg caaatncact gattactttg 240  
 gacatcatcg ccggcaccgg cattggcgcc atcctcgccg tcatgatcac cgccga 296

<210> 669  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554141H1  
 <400> 669

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 aaatggatca ggaaaattag atgaattcca atttttctnt ttttgaaaat tcttttttgt 120  
 ggtaatttg gtaggttttag atacactagt tgcgactttt gtctttccag ttttgaattt 180  
 ttngactttg atatgaaata aatcatatac tttgngngtg ctcatggtgc caaggaaaat 240  
 tagtctatcc ttttcggcgg gccacttcgt aaaaaaactt tggtagattt ag 292

<210> 670  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554142H1  
 <400> 670

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 agatgccgca atgctccaat ggaaggtggt tccttcacca tcgaagactt cactgctgct 120  
 cttgacaagt acgacttcga ttctgaagtt ggcggcaaga ttaaaggcac tgtgttctac 180  
 acagataaca atggagcagt tggtgatatc actggcaaact cttcgggcat attgccactg 240  
 gcaagaggcg tgcattccaca ggtaagcag ttgaagaagc aggcttattc 290

<210> 671  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554143H1

[illegible]

<210>	672
<211>	288
<212>	nucleic acid
<213>	Glycine max
<223>	Clone ID: 700554145H1

<210>	673
<211>	290
<212>	nucleic acid
<213>	Glycine max
<223>	Clone ID: 700554146H1

245

<210> 674  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554147H1

<400> 674

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 gcgctaaaga aggtgattag gagttcacct aaaatgcnaa tngatttnga ttcagatctg 120  
 attgatgaag atagtctttt gactgaggaa gatttaaaga aaccccagct tccacctggg 180  
 gattgtgaaa ttgggagcac aagaaaagcc tggcaaaaat tgcacctgtg ggagggctga 240  
 agaagaggag aaagtatgaa gttaggatgg acaacagaac agattgata 289

<210> 675  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554148H1

<400> 675

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 cactgaagct gagagcaaca tgaatgacct tgtgtctgag taccagcaat accaagatgc 120  
 aactgctgat gacgagggt atgagtatga agatgaggaa gaanctcagg aagatgaggc 180  
 ttaaaacagt gtagtagtgt tttgcagggt gttctgtttg tgtgttttgt tgtgatactc 240  
 tgtttaacgt tgtgtttttt ttcacatcc ctggacctga atacttttt 289

<210> 676  
 <211> 157  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554149H1

<400> 676

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 gcatggaaga gaggttcaag gaatttatgg caagcaaagg tctagatgct gtccaaactg 120  
 aggtcaagga catggattgg gagagcacct tccacac 157



gcctcggact tggacggcac cctcctggtg tcccctagcg cctttcctta ctacatgctc 180  
gtcgccatcg aagccggcag cttcctccgt ggccttgtec tccttggaac cgtccctttc 240  
gtgtacttca cgtacatatt cttctccgag accgcgga tca 283

<210> 680  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554153H1  
  
<400> 680

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tccgtaaccg taacgttaac gtcacgctca tcgtcatcgt cgtttatccc aaaacgatgg 120  
acttcaccac ttctgcaaatt tccatata 148

<210> 681  
<211> 256  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554154H1  
  
<400> 681

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cgncgaaggt ggccggcgag gcattcgtat caatggctgg ttgatcgaga ctccggaggca 120  
ctccatactg aactcttcca cattccaaga gtgggtcaaca gaaactcgat acgtctncat 180  
ttaccagaaa tgggttttgg ggaaaacact tgatctaaaa cacttgagca gtggaaccaa 240  
catcatttaa tgcatt 256

<210> 682  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554155H1  
  
<400> 682

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ctgcctccgt ctccactgtc ggagctgtca acagagctct tttgaacctg aatgggtctg 120  
gacctgggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aaggttattg 180  
gctcaagggt ccccaacaca aagatttcct ctggaagctt caagattggt gctgtagaag 240  
agaagaaaga gattgaagag acccagcaga ccgncaggga cagatggc 288

<210> 683  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554156H1  
<400> 683

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gcagcagcct cggcctcatc caccatgata tcaacaccag ccttatctcc aagcacaagc 120  
atccaaaagc accatcattt gaagccatcc aacgtgtgct ttcaaggcct tagaccctc 180  
acaaggttca caaccaaagt gagcagcacc accaaaaggg ttattccaaa ggtggtgtcg 240  
gtgttagagc tgaatcaact cagcacttgt cataagcctc agcatggg 288

<210> 684  
<211> 290  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554157H1  
<400> 684

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ccacaacaca ggccaaatct ctccaccatt caagcagaag gaattcccat aattgatctc 120  
tctccaataa ccaaccacac agtttcagac ccttctgcaa ttgaaagctt ggtgaaggag 180  
ataggacgtg catgccagga gtggggcttc ttccaagtaa caaacatgg agtgccactc 240  
actctaaggc aaaacattga gaaagcctca aaatgttctt tgctcagact 290

<210> 685  
<211> 237  
<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700554158H1

<400> 685

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 ttattaattt ttccattcag ctggtgaata tactcccaaa accatgttac agaagcaaca 120  
 acaaggacac acatggaagg gatgtgcacg gggagagtga aacactgagg atgctaagtc 180  
 aaacccacct tcattctccag cttcaagaa atggcaacaa agataggtcc tacagtc 237

<210> 686

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554159H1

<400> 686

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 ctccgcatgc caaacctcaa cacagacgat ctaagagtgc ttctgaaagg aacctggcaa 120  
 acgcaagang tgggtggagcc tcgcatccac tcgagaaaga ccacaatgaa tcccttgttt 180  
 caacatcttc ggtgagtgtc ctaggttacg gagtccgttg catgacaatc tcaactcgtgt 240  
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<210> 687

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554160H1

<400> 687

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 tactcaatgc aaacaaaggg aaaaaggaga gaattggtag actttagaaa tgcattgcaa 180  
 cagcagagat gatgttaaag tggcttagct ggtgatatat gctctgcagt ttgaaagata 240  
 ctattacagt gaaacatgtg tgacccggat atccat 276

<210> 688  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554161H1

<400> 688

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 gcaggcccgg ttcgggtttg gcaagaagaa agccgccgcc ccgaagaaag tttccagggg 180  
 gtcgggctct agctccgata ggcccctgtg gtatccgna cgccaagcgc cgagtacctg 240  
 gatgggagcc ttgtcggaga ttacggatcg acccattggg ctag 284

<210> 689  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554162H1

<400> 689

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 aacaccaacc ccaagttccc cactatcctc caaaactaca tccgaaacgc gcgtttcaac 180  
 acctcctcga cgcgaaaacc atactcatcg tcatccccag caagaatcac agtccagggc 240  
 acagtaatct gcggccaaag 260

<210> 690  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554164H1

<400> 690

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 atttggttgg gatgtcaagt atgctggtgt tcagacatta gttgccaagt tcctgatgca 120  
 aggcaaagct gggcatcatg ctccagtttt cgagagatat cagcagaagg ctgaatcttt 180

catgtgttcg tgcctggaaa ggtgatcgc aatgttcaga agactccggg tggcctcatc 240  
ttccgccaga gcatggaaca acatgcattt gtcacaatgc ctent 285

<210> 691  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554165H1  
  
<400> 691

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tcggacaatc actccaccaa tcaaacaacg gcagctactc ttgttcgtcg cgggagactg 120  
caaaactcctc taaccttccg accactccga aagccgttca ccccgacgag gaagtgaaca 180  
cattagcatc ggctcatcct aagaaacgtg cggggcgctcg aatttttaag gagacaaggc 240  
atcccgtgta cagaggagtg cggcggagga acaacaacaa gtgggtctg 289

<210> 692  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554166H1  
  
<400> 692

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aagcactctc caccttccat ttctccatct tttggcttga ggagtctgaa atcaagctct 120  
ttatttgag aatcgctaag agtggcctcc aaatcaacaa taaaggtttc aaagacaaag 180  
aatacttcac tcgtgaccag atgtgaaatt ggtgacagtc tcgaagaatt cctcacaaaa 240  
gcaacaccag ataaggggtt gatcagttgt tgggtgtccag ggaga 285

<210> 693  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554167H1  
  
<400> 693

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ccatggctgc ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg 120  
ggctcggacc tgggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg 180  
ttattggctc aagggtcccc aacacaaaga ttcctctgga agctcaagat gttgctgtag 240  
aagagaagaa agagatgaag agaccagca gaccgacaag aca 283

<210> 694  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554168H1  
  
<400> 694

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aggcaaagct gggcatcatg ctccagtttt cgagagatat cagcagaagg ctgaatcttt 180  
catgtgttog tgccctggaaa ggtgatcgca agttcagaag actccgggtg gcctcatctt 240  
ccgccagaga ggaacaacat gcatttgtca caatgcctca tt 282

<210> 695  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554169H1  
  
<400> 695

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ttagtgggag gaaactgaag gtgaacaact ttacagcacc agttggagca cgatccagca 180  
ctacagtttg cgcagttgct gagcctgata ggccctctgtg gttcccaggg cagcaccctt 240  
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<210> 696  
<211> 284

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554171H1  
 <400> 696  
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 tggggatcag ttcacaaagg acgacatcaa agtgtatggt gctgttttgg agaagccagg 180  
 tgactctttt cccaatgctg ccaagtggta cgaggttgtc tcattctcagc ttgctgcaag 240  
 cttccccggc aatgctcaag ggtgagatca tggcaaagct ctgc 284

<210> 697  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554172H1  
 <400> 697  
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 agtttggggg gggatctaca tctctatggg attatcactt tccttactct catcagcctg 180  
 ggaagaaatc gttagacatt cactatcttg tctgtctttg aacttcactt ttggttccaa 240  
 agatggggct atgatttgag atcaggtagc ttcaagataa gagaatc 287

<210> 698  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554174H1  
 <400> 698  
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 ttgaaaacga aaacggagac ctaaacgacg cgttcttgt tccaccccct aacttctcca 120  
 tggtcgagga ctgcattttc cgatccggcc tccccaaccc ttccaatttc ccctttctcc 180  
 aaaccctaaa ccttcgttcc atcatatacc tgtgcctga gccttatccg gaagaaaatc 240

tggacttctc tcgttcgcag aatattcgcc tttttcaatt gga

283

<210> 699

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554175H1

<400> 699

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gcggcgccga cggcaacggc aacagttctc gcaccaccgt cggctttcct cggaagaccc 120

tccgtactcg ccttcggttc caatcttcgc ttctccacta agttaagcac ttctgtagct 180

atctccaagc atggatcatgg gagacactgt gttggaacta gaagggggtt tgtagttaga 240

gctgcatcat ttacaccaga gtcacccgaa ccgagttcca aga 283

<210> 700

<211> 222

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554176H1

<400> 700

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caagtttttag aaactatggt ctaggggggaa ctaccctgaa ttgagaattt ttgtcttttag 120

aaaccgcgtt atattatttg tttctatata tctttgtgtt gtcacccgat tatntggata 180

gtaataattt cacctttaat gtgtcaacgg attattggat gg 222

<210> 701

<211> 199

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554177H1

<400> 701

gngagagggn ctcnttggng cttcncanta agccatccac aattancatt cctcattagg 60

actctagtag ttcantgttc cttcattttg tatccaatgc caaggtgtgt aattataaag 120

gttttgaaat atacttcata atntctaaat catttcaaan cttaaatagt tattttatca 180  
tgaattcttt taaaaaaaaa 199

<210> 702  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554178H1

<400> 702

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gattgagaaa gtgtgttagg gtaagagttg tgtcgtgtcc acgagacact gggagaaaga 120  
aagtgtgtgt gagttgttgt aaactgaatt ttcatttttc tttagccatg agcacacttg 180  
ttcgcaacac caccctcacc ttcagccgca gaaacagata cgagctcttg gtttgcaggg 240  
aaagacaaga ggtcaagtcc atcagctnac agacgcaga 279

<210> 703  
<211> 239  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554179H1

<400> 703

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gtattttttt tcactttatt ttctgtacgg gcaactcaat gctctaagaa cttcaaagca 180  
ttgtactagg aagaagctcg ttatactaca tatgagtttc tccttgattc ctcatttaa 239

<210> 704  
<211> 250  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554180H1

<400> 704

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cgaccacctt tgccaaacca gatgaaaact ggtcgtggaa gtagttccag tcttatcaga 120  
 catggtagct cacctgctgg attgttttca aacattaaca ttgatactgg ctatgctgct 180  
 gtttagaggca gggaactatg ggagctgctg ctgctaataa caccaccgag gaagcaaact 240  
 tttcaccgcg 250

<210> 705  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554181H1  
 <400> 705

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 cgcctcacga gggtcaccaa cggcacgtgc ctttgggggg ccgaggcccc ctactgctgg 120  
 tcggcaaacg gacggcgggc gcacgcgtcg cttctagccc ggattctgac ttagaggcgt 180  
 tcagtcataa tccaacgcac ggtagcttcg cgccactggc ttttcaacca agcgcgatga 240  
 ccaattgtgc gaatcaaggt tcctctcgta ctagg 276

<210> 706  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554182H1  
 <400> 706

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 gtttccttgg caaaatggag gatcttaaata agactgcatg ataggaatga gactttgtac 120  
 tacagagttc ttattgataa tattaaagag tttgctccaa taatatatac tcctacagtt 180  
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 ccaaagataa aggagagatg atgtcaatga tctataactg gcc 283

<210> 707  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max





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<210>      710
<211>      275
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554186H1

<400>      710

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gtgagacttc tgatctgtta ctactgtaaa gtcaaaatat tcaaaagatt catttcaggt   180
ttggaataca caaccctgtg atagaggtat gttagctaga ggtgtagctg ttggggcatc   240
tctgtggntn tcacatctgt tgatcctgaa caagt                                   275


<210>      711
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554187H1

<400>      711

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tcgcagcttc tgccatgctt cgttcatcac aaactacctc tgattcaaac tcaaccctt   180
ctcttcttaa cgtttcacat caaactactc cacttccatc tt                                   222


<210>      712
<211>      284
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554189H1

<400>      712

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cctccgtctc cactgtcgga gctgtcaaca gagctctttt gaacctgaat ggttctggag   120
ctggagcttc agtcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct   180

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caaggggtccc caacagcaag gtttccggtg gaagcttcaa gattgttgct gtagaagaga 240  
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<210> 713  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554191H1  
 <400> 713

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 gaaatccact accactgggc acctgattta caagcttgga ggcattgaca agcgtgttat 180  
 tgagagggtt gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt 240  
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<210> 714  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554192H1  
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 aagttcctaa ggtcacaggg gtttgtatca tcatatgaca ttgctaata atacagtgc 180  
 agttatgcag attctcacia gtgggttagt caccgaaatc ataggggaaa tatctgtgg 240  
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<210> 715  
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 <223> Clone ID: 700554193H1  
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 gaagcagggga tagatggagc aaatttatct ttgttatcag acttgatgaa attgcagttg 180  
 tcaggcattg atgaaactca gcaaccattg tcattcttta tctaccaaac tagcaaattc 240  
 aacatcctga agccttgctg tatttgttca aggttcag 278

<210> 716  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554194H1  
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 gtggatcctg agattgctga tattattgag cttgagaaag ctaggcaatg gaaggggcta 240  
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<210> 717  
 <211> 192  
 <212> nucleic acid  
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 <223> Clone ID: 700554195H1  
 <400> 717

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 gttttgaaat atacttcata atatctaaat natttcaaaa cttaaataaa ttattttatc 180  
 atgaattctt tt 192

<210> 718  
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 <212> nucleic acid  
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<223> Clone ID: 700554201H1

<400> 718

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cctgattcta aggatgttaa aagggttgg aaagaggctg gtgaaaantg gaggtctatg 180  
actgatgaag agaagaagcc atatcttgac aaagttgctg agcttaagga agagtacgag 240  
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<210> 719

<211> 221

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554203H1

<400> 719

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gcagtgattc ctagtgc aaa tcagcttacc atcttctata atgggagtgt ttgtgtctat 180  
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<210> 720

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554204H1

<400> 720

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aatcnatttg ggaacgatta ctcttgcntc ggcgtgtggc aacacgatcg tnttgaaatc 180  
atagccaacg atcagggtaa cagaactacc ccatoctacg tggcttcacc gacacagaan 240  
ggttgatcgg cgctgcggcn agaaccaggt cgctatgaac c 281

<210> 721  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554205H1

<400> 721

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 tgggtgcccgat actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacacaa 180  
 catctttggc tttgagacca ttcctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240  
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<210> 722  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554206H1

<400> 722

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 agcttttagac atgtcaataa tatcacatga caacgctcat gcggataggg ccacgangcn 180  
 gcccgacgac gaggtgatgt caatgttcga ggagtggctg gtgaaacacg acaaggtgta 240  
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<210> 723  
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 <212> nucleic acid  
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<223> Clone ID: 700554207H1

<400> 723

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 aggggcaagt gatttgntat attgaacagc ttggtggtga gctgccatt gagtctgatg 180

tgctgggaga ggtcatcaag atcctacaaa aggacggcga tcctgttgga tatggtgacg 240  
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<210> 724  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554209H1

<400> 724

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attctaagga tgttaaaagg gttggtaaag angctggtga aaantggagg tctatgactg 180  
atgaagagaa gaagccatat tcttgacaaa gttgctgagc taaggaagag tacgagangg 240  
ctatggaaag ctagnagctg gttcaagatg aagaagatca aactgtgtct gga 293

<210> 725  
<211> 296  
<212> nucleic acid  
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<223> Clone ID: 700554210H1

<400> 725

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caccggcggc aagaaattct tcaagcgctc cgagatccag cagaaggaaa tccaaaaact 180  
ccgccagcaa gagaagcgcg aattggaagc caagtctact aaagcgctn cgcaacatcc 240  
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<210> 726  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554211H1

<400> 726





<212> nucleic acid  
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<223> Clone ID: 700554214H1

<400> 729

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aaagccttct caggttgagg aactaacgag gagctgattg tatcgatctt ggctcatagg 180  
aatgctgctc agagganact atcagagaaa cttatgcccga gacctatgga gaagatctcc 240  
tcaaggcctt ggacaaagaa ctcacgagtg attttgagag gctgggtcac 290

<210> 730  
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<213> Glycine max

<223> Clone ID: 700554215H1

<400> 730

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ctttgctatt ggggtctgct ctcaagctgc taagacatat ttggaagcag tttgagantt 180  
cgtgggttct cgagaga 197

<210> 731  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554216H1

<400> 731

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tcagcctgat gggcagatgc caagtataaa gactgttggt ggaggtgatg atgcttcaac 180  
accttcttca gtgaaactgg ggctggaaaag cacgtgcctc gtgcgatttt gtagatctcg 240  
agcctactgt gattgatgaa gttaggactg ggacataccg ccaatatttc a 291



ccaacgagat ctctgtatct gccgaagagg aattcaatat cgagaagctg cagttgggtg 180  
aagccgaaaa gaagaagatc aggcaagaat acgaacgcaa agagcgccaa gtcgaaattc 240  
gcaagaagat tgagtactca atgcagctga atgcttctcg gttaaag 287

<210> 735  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554220H1  
<400> 735

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attctcatgg tccagaccct tttcctagtg atcttganac agccacaaat tcccatcatg 180  
atttactcgc ntcttactta ggaagtcacg aganggccna ggaagcaata tataactcgta 240  
caataagtac atcaaggcnt tgctgcccta cttgaagagg aa 282

<210> 736  
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<212> nucleic acid  
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<223> Clone ID: 700554221H1  
<400> 736

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gcgtaccgga ggcgaattgc tnccgccaaag cccaccaagc agggagaggg cctccgccac 180  
tactattctc tcaacatcca cgagcatcag ctcttcttcc gccaaaagac tcataacctc 240  
aaccgtctcg aggcttcaga gaaacgacct ncatnctagg gtgaggatgc 290

<210> 737  
<211> 277  
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<213> Glycine max  
<223> Clone ID: 700554222H1

<400> 737

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 atcattacaa ctagagatcg acgtctgctt gaccaactta aagttgannt gtttatgatg 180  
 tggataannt ggacgaaaac gagtcccttg agcttttttag ttggcatgcn tcnatgaagc 240  
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<210> 738

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554223H1

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 ctcaatccca ggttgcaaat cggttcacc ccttgatttg attcntatgt tgcgtgacag 180  
 gacacaaagg gtctaccatg aatttgttgg cgtgtgtgaa ggggcagcac tggctgatgg 240  
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<210> 739

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554225H1

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 tgagggagca gcggttaccg tcaaagggtc aagatccgtt agtcttcggc nacctcttga 180  
 tttccctctt ccgttaaacc gaacggagaa tggttttgct aacggtcttt taactttggc 240  
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<210> 740  
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 <213> Glycine max  
  
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 ggtctggacc tgggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg 180  
 ttattggctc aagggtcccc aacacaaaga ttncctctgg aagcttcaag atgttgctgt 240  
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<210> 741  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554227H1  
  
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<210> 742  
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 <212> nucleic acid  
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 <223> Clone ID: 700554228H1  
  
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cacacgctcc cttgggcctc tcgcatccag ttccatcgcc tcaacatcaa gcacgattcc 240  
cgctctgaag gcctcatcaa aatgtcagat ctgactatta atctggctg 289

<210> 743  
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<212> nucleic acid  
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<223> Clone ID: 700554229H1

<400> 743

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nccttgaggn cttactaatg agttncgta gaggnatggn ttgggcaatt ccagctgga 180  
ancttcttnn aacattgcaa gnattgtaa aacntaatng ggaaacngnc cnagattggg 240  
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<210> 744  
<211> 298  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554230H1

<400> 744

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ccgccgcagc ctcagcccc tacagatgtg ggccccatcg gccagcctc cgttcccaat 180  
tcggtagcta cctccggcaa cccaccagcg ccgatgaggt ccgttaccct actggatcgg 240  
cganttgcat nactggatgg gaganantat ctctatgacc tgtttcgcac acaccggc 298

<210> 745  
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<212> nucleic acid  
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<223> Clone ID: 700554231H1

<400> 745

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 aacctcagtg gtgccacaag gccagctcca tctgcctcta gccctgcctc cttcaagact 180  
 gtggctcttt tctocaaaaa gaaggctgca cctccaaaaa aagctgcagc tgctgctcct 240  
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<210> 746  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554233H1  
 <400> 746

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 tccctaagca cttcaccatc tatggttatg cacgaagtaa gatgactgat gcagaactga 180  
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<210> 747  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554237H1  
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 atacttcaat cgtacagaga agcattggct aataatgacg aagtcaaaat tgctgagttg 180  
 gaatcgatc taaaatccat tgaagatgag aaaatagaac ttgaaggga aatagcttct 240  
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<210> 748  
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<210> 751  
 <211> 210  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554242H1  
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 cataagcctc aagcgaacct aggggcagat cagaagttct cacttggtag gtcgaaaacc 180  
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<210> 752  
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 <212> nucleic acid  
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 <223> Clone ID: 700554243H1  
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<210> 753  
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 <223> Clone ID: 700554244H1  
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 ctgaaacaga gattgaggtg atcaaactctg cagggttttct tgtttcagtc atccatggca 180  
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<210> 754  
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 gaaagttgat gaacgtagta aggnacaggt ggangatttt natcttccgg atttcgaggt 180  
 tgtggataaa gggggtgagg ttcaagagaa ggaacnngat ggaggagagg aagctgagga 240  
 acctatncag gaggaatcaa cttcaangga agttgncaat ncg 283

<210> 755  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554247H1  
 <400> 755

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 atacatgggt tccggtactc tctctgtagc caaaccagcc cttcaggcaa atgggaaagg 120  
 ctctctgaat tctctggcct ccgcagctca tcaggcttcc ttcccttttc tagaaaatcn 180  
 ccagaggatt tccattctgt cattgccttc cagaccaatg cagttggaag cagtggagga 240  
 tacaagaagg gtgtgacaga agcaaaactg aaggttgcca taaac 285

<210> 756  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554249H1  
 <400> 756

tngngcngcc cagccagca gttgantgag cccagggcgc cgnaagnncc ngcagcnaac 60

ngccgcaaag nnggtttggc ctcaccgga tcatacgcat ggtcgntttc tggacttcg 120  
 cttccaaatt cttttccccc annaaaccta ccgaaccttc cgctctcatc tccaatctct 180  
 ttcagaaagc acngcctctg gatatgtggc tttatctctc cgagcacgag aagttcaatg 240  
 annttngcng tgaaagttn cttgnatggc atganaccat gntcc 285

<210> 757  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554250H1  
 <400> 757

tcactccttg ctcttagccc tcctcctctt cgccgcngtn ncctcccgcc gagatggcgg 60  
 tggccgcgtc cgangccgac gacatcctga tccgtcaggt ggtgccagat gttggcgaac 120  
 gcagaggagg acaacctgct gaacgccgan caccacttcg cgcgctnana tggccaagtt 180  
 cgccaagacc tacgccacca aggtaggagc acgatcatcn cttcggcgtc ttacaatnnc 240  
 aacttcgcag agccaggctg cacgccaagc 270

<210> 758  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554252H1  
 <400> 758

tggattcaat ggacaagttc gtgcttcagt gccttgtctt ttatcagaaa ganattgccc 60  
 tgtacacagc ctcaaaattt aatggtgatt tttgctgggt tgatattgac ggggatattg 120  
 atgctctttt taaggaatac tggtgcaaga aattgcatcc aaagaatgta tgcgaaaagg 180  
 ttttcaggca acctccttta cgcgagtcct ttaagaaagg gaaagctaaa aagcaagagt 240  
 ttactattac caagcagaag gctgctcttc tacaggtctc 280

<210> 759  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554253H1

<400> 759

tgttcaatcc catgcatcan aatcccaaca tgtttcttctt ccccatcttg nacttcatna 60  
tcaacttcat cctantnttt gaggttttct tctnccaagc ctcacagtgt cactataagg 120  
aattctcaag ctgaagggcc tataagaagg ccagtggcac cttcannaag agannnnnnn 180  
nnnnnnnnnn nnagtgtccc tcagcttcag aagccaacac ttccttctca gcctccacca 240  
tccccttcac cccacagaa gccagctact tgnnnnnnga g 281

<210> 760

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554255H1

<400> 760

tctactctct cacttctntc tatcacattt tacttgcaag anggcagcgt catcagcatg 60  
ccttgtaggg aatggtttat ctacacgggg taatagaata actctcaaga aggacttcaa 120  
tggaagatat ctctactcac cttgngact ttcattcattg aacaataagg catcagaagc 180  
atttccata aagtcttctt ggagcanagg caacaacaag anngganann ggggtttcta 240  
aaactgttgc ttggaaatgt gggattnnnt tncctgcact a 281

<210> 761

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554256H1

<400> 761

ctagatanca tctctctaaa tttctcatct tctcctctgc ccccatcacc ttgatctgtc 60  
tgtctataca ctcatgtgtt gacaaaaaac aaaatatata cacccggnag tnttgtcata 120  
gctgagagct gactctagct agaggataat aagattacaa gagagaggaa ttgtttntga 180  
ttggatccac aaaattcaag atgactccag tnaatttggc aggccagttt ggtgacacga 240  
catacactaa ggtgtttgtg ggangctggc ctgggagact caaa 284

<210> 762  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554258H1

<400> 762

tttaccatcat tttctctaaa tccaaacagg ccccaaaaga aagagagggga aaattctctt 60  
 ccatggcctc ttcacgcctt gccaatgtgg gaatccttgc catggacatc tacttccttc 120  
 ccacctgctg caccacaggat gctttggagg gtcattgatgg ggtgagcaaa gggaaatata 180  
 ctattgggct tggacaggat tgcattggnct tctgctctga ggttnaagat gntatctcaa 240  
 tgancttgac ggtagttact tcacttcttg aaaatttnag t 281

<210> 763  
 <211> 228  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554259H1

<400> 763

tgctcagtga tacccttttc ttagaacaat gagaganggg naaggaggtt caantngagg 60  
 annactncga cgaagaagat ccgggnnctt ccaanaanna tggcacttgn ctcnegccct 120  
 agcnaccgac ngagtggaaa nccncatncg cacaggctag tgcgangctt ncgagaacnt 180  
 tctttganna agcagttgna gagnacagca atgaactctg cngttccc 228

<210> 764  
 <211> 264  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554262H1

<400> 764

caacacttcc atatcttatt ttctcncct ccatctttga ggttctcacg ganacttctg 60  
 aagatggctg gcatagcatt cggaagcttc aatgattctt tcagtttggc ctccatcaag 120  
 gcctacattg ctgagttcat ctcaaccctt ctctttgttt ttgctgggtg tggttcagcc 180

atagcctatg ctaagttgac atcagatgca gctcttgatc caactgggtt ggtagctgtt 240  
gccattgccca ggttttgctc tctt 264

<210> 765  
<211> 186  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554264H1

<400> 765

tgttttacac catctatatg cttggngtct aatatacatt agtcccatc atttagaaca 60  
acacttcaca tgatttaaca tgagttttac accatctata tgcttgngt ctaatataca 120  
tattttaaaa tgatgtttcc ctttcttccc cggttcaagg aacgatgtta agtgatctaa 180  
catccc 186

<210> 766  
<211> 267  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554265H1

<400> 766

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gctaagtcca agatgccgtg ggtttccttg tttgtggatc acaaaagaaa ttgtgttcgc 120  
ttggtggtgt ttttctgtgt gattctgtaa ttttaattgct caggtgtagt cccattaggt 180  
tgcaaagcaa ctcttttcat agctgttctc ctttcattcc aaagctgtta ggggatgag 240  
gagtactttg cnataacaat aaagaga 267

<210> 767  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554266H1

<400> 767

ganaaattgg aaagagtaca aatttaagag gaaagataac attaccaacc ttgggagctg 60

gcgaacaagc atacgatgtt aattttgaat gggacagtga cttcggaatt cccggtgcat 120  
 tttatattan gaacttcatg caaaatgagt tctacctcaa gtctctaatt ctcgaagaca 180  
 ttccaaacca cggaaccatn cacttnntat gcnactcctg ggnttacaat tcagaaaact 240  
 acaagactnc tcgcattntc tttgccaaca atacatatc 279

<210> 768  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554268H1  
 <400> 768

ttactgactc tctttgtcac cgggtttgtg agatgtcgga tgcacnggcg agtccgagtc 60  
 cacgagagtg gtggcgagca gagccctcgc ggctcgttgt ccggcgcggc tagagagcag 120  
 gaccggtacc ttcccattgc caacatcagc cgcacatga agaaggctct gcctcccaat 180  
 ggcaagattg cgaaggatgc aaaagacaca atgcaagaat gcgtttctga attcatcagc 240  
 tttcattacc agcgaggcga gtgagaangc cagaaggag 279

<210> 769  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554269H1  
 <400> 769

cnaggtgggg tccacagagc tgtggtatgt gatcaacttg acggaggata atcacccgct 60  
 tcacattcat ttgggtttgt tcaaggtgtt ggatcagacg gaactggtga aaccgcatga 120  
 tgagtttacg gaatgcatga cgacaatcaa cgatgcggtg aagtgccacg tggacaagtn 180  
 cgcgcgtggc annatnatag angtgccaac ncatntnaaa gggtnaatag ctgcgttcac 240  
 nctggtgccc gngcagtgac naacgttact ctnaagnt 278

<210> 770  
 <211> 219  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554271H1

<400> 770

ccntcattag cgtcgttatc aggtggcaac aatgtgattg atacctgcgg gtcgtaatct 60  
naacntgggt tctgcttcnt ntcgggcttc tacttctgtn angectgcng ncatcagcac 120  
caatccagcc agntctcagc aacaaatgca gctgatcag cagtnagcng cnaatntcnt 180  
tcancgtcan nnctcnnagt cgntntngag cngantgtg 219

<210> 771

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554272H1

<400> 771

tccttcacaa cgtgttccaa gacagtgggc taanaatgat cttcgtgatn gaaccatata 60  
taaagattct gagtatctgg agtttcttga actacttgcc aagcctgttg agaattctcc 120  
cagtgccgag atacaattgg agaagagggga agcagaacga tctggtgctg caaaagatat 180  
tcctatnatt acaccactga tggactttgt ggcgcagaaa agagctgcca agggacctag 240  
gaggccactg tcaaattggnt aagtgagtag aagagctggc ac 282

<210> 772

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554273H1

<400> 772

tcnttgcnan gatttgggtg ntttnaangc ttcnaattat ggaancnaca ngnacggata 60  
anttggaggc aggaacagtt tcaagtnatg ncaggnaaag tgaantcaag gcatttgatg 120  
attcaaagac tgggtgtcnaa ggactggtag aaaatgggtg aacaaaagtt ccacttatgt 180  
tctnggnnga aaactctaatt ctcgatgagg cgtaacgggtg ctcantcna agatcagcat 240  
ccentattgg cctcacggca tcngntgacc tatt 274



<210> 773  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554274H1

<400> 773

tcgagataac tagaaacagt gtgatgaaaa tgaaggtcct tgttttcttc gttgctacaa 60  
ttttggtagc atggcaatgc catgcgtacg atatgttccc tctccgaatg aacactggct 120  
atggtgcccc tactccggag gtgaaatgcg caagttggag gcttgctgtg gaagcacaca 180  
acatcttttg ctttgagacc attcctgaag agtgcgttga agcaacaaag gaatacatcc 240  
atggcgaaca atatagatca gactccaaaa cagttaacca a 281

<210> 774  
<211> 117  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554275H1

<400> 774

tttccttaaa ggattccctc ctaatttggg gggattatcc caagtttcag ctgctaccac 60  
tcacacagcat tgccatttcc tgtttcaact accacatgga aaagcttatt cgcattgt 117

<210> 775  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554277H1

<400> 775

cncaactcaa tttttctctc aaccggccca atttagcata agcccagcat ggccaccgca 60  
acagcagcag ccacctnctg ctttcatggg gacgcgcctc ctggaggccc actccggggc 120  
ggggcnggtg caggcccggg tcgggtttgg caagaagaaa gccgccgccc cgaagaaagt 180  
ttccaggggg tcgggtctta gctccgatag gccctgtng tatccggnnn ccaaagggcc 240  
cgagtaactg ggatgggagc ttgtcgnntt tacggattca c 281

<210> 776  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554278H1

<400> 776

gggctgcgcg ggataattgt gatcactcat caaattaata tttttttggt accaacttca 60  
tcaagttatt gtttttttgg taaaaactta tcagattaat ttgaaactag cgtcacttga 120  
ttgtaccatt tgttttctgg aatgaatcct ttctcatgaa gtgataagat tatgagaaga 180  
gaggtagatn caaagcccta aatagtaact tgaaactttg tttataaggt caacttatta 240  
agatgcctta gttggatggt tcttattccc tgaaaaa 277

<210> 777  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554279H1

<400> 777

aagaatggta cttcttttct cctcgggacg ggaaataccc gancggttca cggccgaacc 60  
gtgccgccgg aagcgggtatt ggaaagccac cggcgccgat aaggcgatcg gaaaaccgaa 120  
agcgctaggg atcangaaaag ctctggtttt ttacgccgga aaantcccca aaggnnngaa 180  
aaccaattgg atcatgcacg aatatcgntc cgccaangtt gaccgatctg cctccangga 240  
aaaacaacaa caacttgagg ctgntgattg ggtgttgtgt c 281

<210> 778  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554280H1

<400> 778

ctgaacattg tccaaccag cactggagct gccaggctg tgtcactagt gttgccacag 60  
ctgaagggca agcttaattg aatagcgctc cgtgtgccta caccaatgt ttcatgtgtt 120  
gaccttggtg ngaatgttga gaagaagggt ctactgctga agatgtgaat gcagcattca 180

gaaaggcagc tgaggggtcca ctgaaaggtg tgttgactg tgtgatgttc cactgtgtct 240  
atcgactccg ctgctctgag tttcctctat attgact 277

<210> 779  
<211> 275  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554282H1  
  
<400> 779

aacaactttg caatttcgta ggagatgctc aggagcagca cgctaacaca natgttacag 60  
tcacctgtgt tcgtcacagt cacagacaat ggtccaatc aattcccgta aattatagat 120  
tctttgacgc tgctcggaac tctctatcat cacccaactc cgcgatcttc aaatagagaa 180  
gaaaggccaa ttataaccgt catagttctg gaatggggac cttcaccact cgcgcgttgg 240  
cgcagcgctt tcanaacgcc gacgaactcn tcgac 275

<210> 780  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554283H1  
  
<400> 780

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ccaagcccg c ngccctccgc cccaaactaa gcccaaagct aaggtccgcc gccacaacca 120  
ccatcgctctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggtctctcc gacctgaagg 180  
cggtctccgc cgcgctggcc ctctctcca tctctctctt ccgcccctct cccgccggcg 240  
ccggacatct cggggctcac cccatgcaag ga 272

<210> 781  
<211> 276  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554284H1  
  
<400> 781

ggggactagt aagattgaaa tcatatgtat gantttntcc tcatttggag aagaagtaga 60  
atgggatgga natgccttca agaagatgan aaatctcaaa acacttatca tcaagagtgn 120  
ttgtntttcc gaagggtcca agcatcttcc taatacttta agagtattgg aatggtggag 180  
atgtccttca caggattggc cacatnattt taacccaaag cnacttgcta tatgcnagtt 240  
acccgatagt agctttacat cagtcgggnt ggcnc 276

<210> 782  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554287H1

<400> 782

tgtgacacca aaaggattca tcatagggct tggttgaggt ccatagccaa gtgaagcttg 60  
atthttgtgac atctgactca actgattaaa agcattatca tactgcacaa atggatgtcg 120  
aacttgttgc aaattaaaag gcatcaagtt aacagaagaa gttggaatac tcctagcata 180  
cctttcatag ttacgatcat aatctggatc actgcgatcc tttccctatc tctcaagatg 240  
gcaactcgag tagattaata tccctaccaa tagagca 277

<210> 783  
<211> 265  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554288H1

<400> 783

gaaaagtgat ggaactttga cgccattggc cattgagtta agtaagccgc atcctcaagg 60  
tgaagaatat ggtcctgtta gcgangtctn cgtgccttcg agcgaaggag ttgaagctat 120  
atthtggttat tggcaaaggc tatgttggtg taaatgactc gtgctaccat caactcgta 180  
gccatggcta aacactcatg cggttgttga gccatcgta tagcaacaaa taggcatctg 240  
agtgtggttc accctattac aaact 265

<210> 784  
<211> 261

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554289H1

<400> 784

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aacgcttcct gcagcacttg ctactgctc caagctatgt gagtttcaac cgcggaagna 120  
gaagaagggtg tgtttcgacg cgtntaggct tgcggtgcgg tgtntgaaag cctcggcgca 180  
gcaaattccgg tgatactcat cgacgatgga gngancggac tngnntcacc anacctgcca 240  
nggaagncaa cacnncnate g 261

<210> 785  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554290H1

<400> 785

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ctgtacccag gtggcagtta ctctgaccca ctgggcctgg cctcagatcc agagaagaaa 120  
gccacccttc aattggcgga gatcaagcac gcccgctctg ccatggtggg cttcttgggc 180  
tttgagtcct aagctgccgc cactggcaag ggcccgtctc acaactgggc caccacttg 240  
agtgaacct ccaacaacc atcatgnaca cttctcatc 279

<210> 786  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554292H1

<400> 786

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ccaagcccgc tgcctccgc cccaaactaa gcccaaagct aaggtccgc gccacaacca 120  
ccatgctctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnn ngtgtcctcc gacctgaagg 180  
cgttctccgc cgcgtggcc ctctenncca tcctctctc cgcctctctc cccgcccgcg 240

ccgacatctt ggggctcacc ccatgcaagg agtc

274

<210> 787  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554293H1

<400> 787

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aacaatgggc ctctgcatca gcatctctgc tcaagtcttc acttggtctt gacaagtctg 120  
agtgggtgaa gggacaaacc ctgcgaacc ttctgcatca gttgtgagat gcaacccac 180  
caccatca ggctcacca tcagagctgg ttcctatgct gatgagctcg ttaagaccgc 240  
gaaaacatgg ctcaccagga tnggtnttg gccagg 276

<210> 788  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554294H1

<400> 788

tnatcttattc ttagcaatag ctacccctat cacaacaata ctctattagg caaaaacacc 60  
aatgggaga ggnaaaagag cagcctaaga atgaaaccga gaagaagccc gagngggccg 120  
ccgcagcccc caagaaagac gacggaccca tccctgtcgt ttacaaactc gacttgcat 180  
gcgaggggtg cgtcaagaag atcaaacgca catgtcgcca tttccaagggt gtggaaaccg 240  
ttaaggcaga tctatcgtcg aacaaatgat gttacggca 279

<210> 789  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554295H1

<400> 789

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aaagatacgt tgggtgcacc actgtgccct tgccggcatt atgatgataa agctgctgag 120  
 gttgcacaag gatttttgaa ttgcccttgt gttcccatga gagagaggaa ggaatgccac 180  
 tgcattgctat ttctcactcc tgataatgat ttgctggcaa tgaacagact atcaccttgg 240  
 atgaaataaa gaatcaacag ccaacatgta acagattat 279

<210> 790  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554296H1  
 <400> 790

gcactgaggg ttaaggttct tgtcagcatt ggaaacanga acaaacaatt tcctttcacc 60  
 attggctcgg actcgaacag cgaacatggg tctccgaggc cactgcttcg ctgaagagca 120  
 tcattaaaac ctacaacctt gatggcatcg atgtcagcta cgaggncatc gccgccaacg 180  
 aagccgactt tgtnaattcc gttggggggc ttgtgaggaa cctgnagcag nacgagctnc 240  
 atactgtggc ttccttcgca acaagcgctg atgccgcca 279

<210> 791  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554301H1  
 <400> 791

agtgtatcta gtatgataca gtgtgattac atgtaaatta agtgtagaag ctgatgtgtt 60  
 cctggatgaa atagatttag caattgttgg gaatgtacat gagcttttct agaacagctg 120  
 attttaacct agattagcat gattgataga aaatgttgat ttagcatag gataccatat 180  
 cctctatctt tgtagtatgt tggctccga aatttcattc ctttgtaatt agatattgta 240  
 agacaataat gtgccagtaa ctaattttat gcttaaaaaa aaaaaaaaaa aaaggg 296

<210> 792  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554302H1

<400> 792

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nccggaanac ccgttaaagt ggctnttact tactacaang cgaaaaattc gatgangcaa 120  
aaaatgccgg agctgatttg gtgggtggag aggnctctgat agaacagata aaagcagggg 180  
tcatggagtt tgataaacta attgcttctc cagatatgat gcctaaggnt nctagcctag 240  
ggnagatctg ggttcagagg acnntnccat acccanaagc tggcatgtaa cacca 295

<210> 793

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554304H1

<400> 793

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tcagcgagta tgaagctatt gcaaagcaga anttgccaaa gatggtgttt gactactacg 180  
catctggngc agaggaccag tggactctgg caggagaaca gaaatgcctt ttccagcaat 240  
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<210> 794

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554306H1

<400> 794

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gangcctctc tctgtccgat gctctggcga ttccccctcc ggctctgtgg gtccggagtt 180  
cgatccgaag gtgtttcgta agaaccttac tcggagtaag aattataacc gcaaaggatt 240  
tgggtacaag gaagngancc tccaactcat gaatcgcgag tacaccagt 289



<210> 795  
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 <223> Clone ID: 700554307H1  
 <400> 795

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<210> 796  
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 <223> Clone ID: 700554308H1  
 <400> 796

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 tcctcaatgc tgctggcttg acccctctat ctgtgctctc tgatacaaaa acaacaagaa 180  
 ctaaacaccc ttctgtttct gtatgcaaag tctcaaactt ttccacctca accaacaatc 240  
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<210> 797  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554309H1  
 <400> 797

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 aagagcaaga tgtcaaagaa cataactcat gggttatcatt tggtgaaagg aaaatcatat 180  
 catgacatgg aggattacgt tgtggctcaa ttttaagcaaa tagataacaa tgaattgggt 240  
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<210> 798  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554310H1  
  
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 cttgtacccc ggctttctga gctcattggt atccagattg tcaaggccga ggacagtatt 180  
 ggtccagaag tagaaaagtt ggtggcttct ctccagatgg aggtgttctc ctctagaaaa 240  
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<210> 799  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554311H1  
  
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 tncttgcttt ttctgtattc gccaacatcc tcaagagggg ttttcattcc aaatgcaatt 180  
 acccttcaac aactcatna aaggcctctg ttttcgtggg gcgattaaaa aagcacttta 240  
 cnntcacgat canttggtng gctcaagggt tccagttgg 279

<210> 800  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554312H1  
  
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tntcccantt ctgcattttt ngttngncng aggagnaacc aagaattaag aaatgggttg 180  
ctccgtaana ntttgttggtg tctatttttg gtgttggtng tggcatgtgt tacaggggag 240  
gaccctatag nntctacact ggaatgtcac tatggag 277

<210> 801  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554313H1  
  
<400> 801

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gccgtcgaag anttttctcc atcaccggcc gtgggaccgt cgccaccggc cgcgtagagc 120  
gtggcaccgt caaagtaggg gaaactgttg accttgtagg attgagagag acaagaaaca 180  
caacggttca cagggtgtgga aatgttccag aagattctag acgaagccct cgccggggac 240  
aacgtggngc tgttgctgag nggggttcaa aagacggaca tccagagagg ga 292

<210> 802  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554314H1  
  
<400> 802

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atcaagcatt gcctaattgat cttgtcaaga gaggagttgc tgtaaggat ccatctgctc 180  
cccatggagt tcgacttttg atcgaggact atcctatgct ctgatgggct agagatatgg 240  
gatgctatca agtctgggtg gagaatatgt ctcatctact acaa 284

<210> 803  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554315H1

<400> 803

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aaagagcaag atgtcaaaga acataactca tggttatcat ttggtgnaag gnaaatcata 180  
tcatgacatg gaggattacg ttgtggctca atttaagcaa atngataaca atgaattngg 240  
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<210> 804

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554316H1

<400> 804

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cacaaggcca gctccatctg cctctagccc tgcctccttc aagactgtgg ctcttttctc 180  
caaaaagaag gctgcaccta ccaaaaaaag ctgcagctgc tgctcctgcc aatgatgagc 240  
tgccaagtgg tatggctcctg gacagaagga tcttcttgcc tgagggtctc ttgga 295

<210> 805

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554317H1

<400> 805

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ancaaaggty gagttatatt tcaatttacc tctcatgcc attgcagtgt tcaattaccc 180  
atctggccaa gactcagtga tccaagtaag tagccaagac tatgcanttgc caaactgat 240  
gcatacagtgc caaaattctc anacgggcca cagtcacatca tctcaaccat cag 293

<210> 806  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554319H1  
  
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 ntgctcngca atatgactct aagatgaatg aattgctttc cgctgatgga caagaatttt 180  
 tcacagcata tgctgaagtc tatgatagtt ttmntgcaat gggcctcaag aaaatcttct 240  
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<210> 807  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554321H1  
  
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 ggaaaggaca agaccaagga tcttagtgcg ctgaagcaga agcttgaaaa nattaacgga 180  
 aaaatacaac cactcctgaa aagaaggctg atatagaaag gcgataaaag aagctgaagc 240  
 tgagggctcg tatcatggga aggacaagga tgaggtacnt agc 283

<210> 808  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554323H1  
  
 <400> 808  
  
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 ggagttcgag tcggcgctcg aatccgccaa agacaggctt gtggtggtgg aatacgtgc 180

cagcgacagc gagngagca gccagatata ccccttcatg gtggagctga gccgcagctg 240  
 caacgactgg anttcatcct ggtgatgggc ganagtcgga gaaga 285

<210> 809  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554324H1  
 <400> 809

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 ccngatggtg aatcagcann ggacctanca ttggancttg taganaacgg ttatgcaaaa 120  
 tacgttnnct ggagtgcnaa tntgntggnn gaagaggcna agcgtagct gntagactgc 180  
 ggagtntcng gctaagaang acaggttaag gntgtggncn anctatgtac caccgccttc 240  
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<210> 810  
 <211> 285  
 <212> nucleic acid  
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 <223> Clone ID: 700554325H1  
 <400> 810

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 ctaatacgaa tcctgagatt ttccgctgtg cggtttgcca agcagatcag ccctctgtgg 180  
 acagtttatc aatgaacact gggccttttt cccccagta tctaagccat gggaagggtcc 240  
 atccttctgg cacaaactgt cagaagaaga aagatgccat ggaag 285

<210> 811  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554327H1  
 <400> 811

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 gatcgggtggt gctggcggag ttcagcggca ccaccaccaa cgccagcgca atcgcgcgtc 180  
 agatccttga aaaaatcccc ggcaacaacg acacgcacgt ttctactctc aggatcgctn 240  
 acatcttcca tgttaaacgc accgntggaa tacaccgttc tctgcatg 288

<210> 812  
 <211> 284  
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 <223> Clone ID: 700554328H1  
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 gagctccaaa ccttcagatc cacctcattc gtctccagat cttccttcct tgataacgtt 180  
 ttcgggntcg agaaggcact tgnttggttg tcgtacgaaa tggagactaa accgngttcg 240  
 gtgatgggta cgctcattac ggcgcgttga cgtgcgccgc ggaa 284

<210> 813  
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 <400> 813

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 agatctaaag aaaaacgcgg gttggattat attagtaaca agtaaattct ttgtacgtaa 180  
 aaagttccaa gattttgttg gacagaataa caattgcaaa gtttgagatc acccagaaa 240  
 catatcattt taaaagccta ctcgggtatt gagcgtttat caaa 284

<210> 814  
 <211> 292

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<212> nucleic acid  
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<223> Clone ID: 700554330H1

<400> 814

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agatccactt catgtgtcac atatgctaac agtgctagag aatcttcctt ttttgatctt 180  
gtagcttccc aactcactcc caacaccaat ggatcaactc ctgtgagggg agagacagtg 240  
gccaagttga aggtggcaat caatggtttc ggacgcattg gtagaaattc cc 292

<210> 815  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554332H1

<400> 815

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aattccttca agaacaannt acctcatcgt actattccct acatgatggc tggagattgg 180  
ctacaaggtc catatgtcta ctaccttnca cagtacatat ggatatggga agggagacat 240  
aggacaactc ttcatgctgg ttttgggtct ccatgctctt gnaacaattg tcg 293

<210> 816  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554333H1

<400> 816

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cccanctgag gacaccattc ttacctctac cccatgttgt gcatgtgaat acagctgggg 180  
ctgcaccttc ctcttctgt tctttccggc atgtctgaac gtggatttcg tgtcacacac 240



acttatgggc tctcagaaac ctaggcccct ctgtctactg tgcctgggna accaga 296

<210> 817  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554334H1  
 <400> 817

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 ggaaaaggcc aacgagatct ctgtctccgc cgaagaggaa ttcaatatcg agaagctgca 180  
 gttggtacga agccgacaag aagaagatca gggcaagaat acgaacgcaa agagcgccaa 240  
 gttgaaattc gcagaagntg agtactcgat gcagctaang cntctcgga 289

<210> 818  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554338H1  
 <400> 818

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 ggcagtggca gatgagccaa aaccaggaac ccagcagcc aagaaaaagt atgctaccga 180  
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<210> 819  
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 <212> nucleic acid  
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 <223> Clone ID: 700554340H1  
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 atttgacttt gtttnttcaa cccccaata aattogaata ttatggttat gacactgttt 180  
 ttttcagatt tcatttttct ataatagaga gttctattat agaaatntcg attgtaaaat 240  
 acaataaaat tggattcgat actaaacata aaatagatat ctat 284

<210> 820  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554342H1  
 <400> 820

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 actatttctg tgccactttc tggattgatt aaccatctta ggtagcagag tccaccattt 180  
 cttgattttt ggagggttaac agtggttcata ttcaaacactt tgctatttct caacttacia 240  
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<210> 821  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554343H1  
 <400> 821

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 tttgtngctt gcnaagcttg caaagccatt gattggaacg gctcgaatag tgattaacag 180  
 tcttcatatc aagggtgatc tntgcctac acctattcta gaggcagaag cacttctgta 240  
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<210> 822  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max



<210> 825  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554349H1  
  
 <400> 825  
  
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<210> 826  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554350H1  
  
 <400> 826  
  
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 ggaaaaggcc aacgagatct ctgtctccgc cgaagaggaa ttcaatatcg agaagctgca 180  
 gttggtcgaa gccgacaaga agaagatcag gcaagaatac gaagcncaga gcgccaagtt 240  
 gaattcgcaa gaagatgagt actcgtgcnc taaatgcttc tt 282

<210> 827  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554351H1  
  
 <400> 827  
  
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 ngacgcagct gantgnggac atgtcagtgc aannttacct ggataagcan atgcnnctcc 120

gaaaacncga agatgccgta cnatgcngcn gttagggccn aaacctccga tcccgnnctg 180  
tcattctcga atacacatgc ganacgcant gcaattcggt gataaaacaa tcaaggcgag 240  
gcagatccta gttagcagng gaatccancg tcgaatcgat tgc 283

<210> 828  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554354H1  
<400> 828

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aaggaggaac ttgatgttcn nnnnnnnnnn nnnnnnnnnn ntttgcctctg ttgctgggat 120  
ggcagtggca gatgagccaa aaccaggaac cccagcagcc aagaaaaagt atgctccgat 180  
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cttctgatga tcggaaatgt gcattagggt tg 272

<210> 829  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554356H1  
<400> 829

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taaagagtta cttgtaacgt aatacaaata aactcgagta tggatattgt caggaagact 120  
attngacttt gttttttcaa ccccccaata aattcgaata ttatggttat gacactgttt 180  
ttttcagatt tcatttttct ataatagaga gttctattat agaaattcga tgtaaaatac 240  
aataaaattg gatcgatact aaacataaaa tagatatc 278

<210> 830  
<211> 97  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554357H1

<400> 830  
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<210> 831  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554358H1

<400> 831  
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gtgccgcca ttctggtggc catgctcaac aacgccgccg ctatcaaggg caagtaacgat 180  
atcacgtcgc tgcattcggt gctctccggt ggggctccgt tgagcaagga ggtcatagag 240  
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<210> 832  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554359H1

<400> 832  
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ggaaaaggcc aacgagatct ctgtctccgc cgaagaggaa ttcaatatnc gagaagctgc 180  
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<210> 833  
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<213> Glycine max  
<223> Clone ID: 700554360H1

<400> 833

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 ttctttcaga ttgaatttac tttcaaattt tgtttttgcc ttctcactag tcatgctagt 180  
 gagcctccct gaaggaataa tacaatacca agtattgctg ggttggcagt aacatatggg 240  
 atcaatctga agtggtgcaa gcttcagtta tatggaacat atg 283

<210> 834

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554361H1

<400> 834

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 cacttgctaa naaagctttt tctacctcna aacaagaatc ctcantagtt gaagactgaa 180  
 atcaattaaa gctgatgatg attcaattcc ttttggtctg gcctctacta ncttngctga 240  
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<210> 835

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554362H1

<400> 835

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 ccttntcctt tncaactatt ccactnacca agtccatgga ntctttgagg ctgcaagttt 180  
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 ttccccgctc agtacgagt ataataggna aattgtgaac c 281

<210> 836  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554363H1  
  
 <400> 836  
  
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 gatcgcgatt ccgcagaatc gttctcaatc gtcgcttgat tcggttcgat tccgtgggtc 180  
 gagctgcatg aactggttcg ggaagctgga ttcacatcgc tcgcaacttg aacttcaatc 240  
 attcgttacg tgtctgttga tttttttcct ccattttcgc ctca 284

<210> 837  
 <211> 108  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554365H1  
  
 <400> 837  
  
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<210> 838  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554367H1  
  
 <400> 838  
  
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 tgttgcnnat ccgttttgaa acggnnagcg tngccgtncg ggccanngga agccgcnttc 180  
 ngaaagggat nactccgccg tcgaggcaga aaaaggaaga agaggatgtt tgcttcanat 240  
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<210> 839  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554369H1

<400> 839

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 agctgcantg gaggtggtaa atgaaaattt ggagctgcaa acttggttct gatatacccta 180  
 ctgaactact tagaattant ctgtcccttn aagtctagca tgatatgttc gggctcgggtt 240  
 gtttncnana natagc 256

<210> 840  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554370H1

<400> 840

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 cgtcattgga catgtcgact ctgggaagtc caactaccac tggtcacttg atctacaagc 180  
 ttggagggtat tgacaagcgt gtgattgaga gggtcgagaa ggaggcgccg agatgaacaa 240  
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<210> 841  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554371H1

<400> 841

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 aagtgttgct aagaggggtg ccaatatgtt aaatggtgaa caaatagggg gtaagaagag 180

gtcatcattc tactatgatc ttggaatatt aagtacttaa gtaagttcaa gtgggatgat 240  
ctgactgaag aatagcctaa agaaagctat tcggga 276

<210> 842  
<211> 279  
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<213> Glycine max  
  
<223> Clone ID: 700554372H1  
  
<400> 842

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gcttctctga attctctggc ctccgaagct catcaggctt ccttcccttt tctagaaaat 180  
cttcagagga tttccattct gtccattgcc tccagaccta tgcagttggn agcagtgagg 240  
gatacaagaa ggggtgtgaca gaagcaaaac tgaaggttg 279

<210> 843  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554373H1  
  
<400> 843

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ggtcacccct ctccggcgct tccgtcaagc tcaactcccca atccataacg ctttcacgct 180  
ccaagtcctt caccgtcttc gccgccacca agaaggccgt cgccgtacct caaggggacc 240  
tcggccgctg aaggcgctgc cactctcatc caagaagacg atg 283

<210> 844  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554374H1  
  
<400> 844

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 cttttccttt acaactattc cactacacca actccatgga atctttgagg ctgcaagttt 180  
 tggagggtca aatattgatc catcagcttg ggaggataag aagtgccctg gtgaatctcg 240  
 tttccccgct caggtagcag tgataatagg aaaactgt 278

<210> 845  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554375H1  
 <400> 845

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 ttctacattg ctccagcttt tatggacaag cttgttggtc acatctccaa gaacttacat 180  
 gaccctgccc aacatncaag gtctctctca ttcttggtat ctggggaggc aagggacaag 240  
 gaaaatcttt ccaatgtgag cttgtcttgc caagatggga a 281

<210> 846  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554377H1  
 <400> 846

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 cccttttgaa gtttagataa taacctgtct tgtcattatg ttttgattt ggattttact 120  
 tttctcgttt ttttaatgta cttttccccg tttcaactta acaatgatat aagttgcata 180  
 tgggtotattg attgtttcgt ctccatattt gcttaatgct atgaagtggg ttgctctccc 240  
 atttttgaga gttgaacatc tctgctag 268

<210> 847  
 <211> 280

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554379H1  
 <400> 847  
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 taacaccttg tttnttgtga ttgtgggttg gaaacccttn aagtgccttt agatgcaaaa 120  
 ttccatactg aagatccaan agttgtgggt gggaagtttt gcgacagagg tacactgcng 180  
 gatgtgttct aagactattg ctgactgtgt tgaagctctg ataggngcat actatgtaga 240  
 tggaggactt ttgctcacta atgtgatgaa atggcttggg 280

<210> 848  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554380H1  
 <400> 848  
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 agaggatttc cattctgtca ttgccttcca gacctatgca gttggaagca gtggaggata 180  
 caagaagggg gtgacagaag caaaactgaa ggttgccata aacgggtttg gaaggattgg 240  
 aaggaattct tgaggtgctg gcaggctgca aagatccctt 280

<210> 849  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554382H1  
 <400> 849  
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 acagagtttg tgccaaatgg tacccttaga gaacatttgg atggtatgcg tggaaaaatc 180  
 ctagacttca atcaacgcct acgaaattgc aattgatgtt gctcatggct gacctatctg 240

catctgtatg cagaaaagca attatccatc g

271

<210> 850

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554383H1

<400> 850

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ttagagtttg aggttttggg tgtagaaant ttgggttttt atccatcatg gatatcntat 120

aanaaagtta gctctatatg cttaatagag aatgtgtttt ncnaaggngt tctgtttgta 180

agaactggtg gaaggatggt ttgttagaaa gagcgtgatg ccgctnctgc ccaaaagggg 240

gaaaagttat tatcatagtc caaggttggt ggaagctg 278

<210> 851

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554384H1

<400> 851

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caaatgggag aggnaaaaga gcagcctaag aatgaaaccg agaagaagcc cgaggngggc 120

gccgcagccc ccaagaaaga cgacggaccc atccctgtcg tttacaaact acgacttngc 180

attgcgaggg atgcgtacaa gaagatcaaa cgcacatggt cgccacttac caaggtgtgg 240

aaaccgttaa ggcagatcta tcgtcgaaca aagtgactgt tnccg 285

<210> 852

<211> 253

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554385H1

<400> 852

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taacncaacc ccacttnaca ctnaccaaac aancccgcta ncnagatca accttctttc 120  
 agacatagcg aagaaacana acacngttca tcatgtacaa gtnnccagca ccatgtatatt 180  
 acgcantctc cttcacnatn ctnganaaag aaaaagnaga nanggcnctg ccntncgnen 240  
 tcttcatntn naa 253

<210> 853  
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 <212> nucleic acid  
 <213> Glycine max  
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 <400> 853

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 gctgacaact gaggttaagt ctgttgagat gcaccatgag gctctcacag aggctctcca 180  
 ggtgacaatg ttggcttaat gtgaagaatg ttgcagtcaa ggatctcaag cgtgggttttg 240  
 ntgcatccaa ctccaaggat gaccctgcc a 271

<210> 854  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554387H1  
 <400> 854

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 tcgatgctat gggaaaacat ggggaagaaa aggaggcaaa agacgaagac atgcaggaag 180  
 tagaaccaag tgataacatg aaaaaaggca tgaggaaatg accatgatac cggaagacta 240  
 gggaagaaaa ggnggggaaag gaccaagact gcc 273

<210> 855  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554388H1

<400> 855

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gggtgaacct tgtgataacg ggaggggaaga ccaantttga gactcatgag gaagagcttc 180  
cgaagaagga cnagtggacg acaaagaaga ggttgaagat gcagaggaag agagagaagg 240  
agaagaggag agcggccaac aggaagtccc cctnca 276

<210> 856

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554389H1

<400> 856

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ccagaagtgg gaaggggtgag catgaggaag accgtcacca agcaggtctc ctcaggaagc 180  
ccatggtacg gccagaccg agtcaagtac ttgggcccac tctctggcga gccccgtcc 240  
taacctaacg ggtgagttcc caggcgacta cggctggga 279

<210> 857

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554390H1

<400> 857

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cgtggaagcc caaatgggcc tttcacccca aagacgtctt tctcaagttt cgtctctctc 180  
gccctcccaa tccccaaaac gacaccgctt ttacctacta ccgccaccag ttcctccgcg 240  
cgtgagaaag acgcgagtgg gagtcctgtg gtgacgg 277

<210> 858  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554392H1  
 <400> 858  
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 ccgtacaatt ttctctagaa agtatggcct tcntagcaag gnagaggctg aggaggatgc 240  
 gaaacacatt gaggatg 257  
 <210> 859  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
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 ggagagaaaa agtaacacca aaacataagc atctgagacc atttcaatgt gtgctgacac 180  
 aggataacag aagcattgcc gtccaagaat ggcaatgatt cattgggtcat atgtcggggt 240  
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 <210> 860  
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 <223> Clone ID: 700554394H1  
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[illegible]

<223> Clone ID: 700554395H1

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cccaagctga	ctgtgctgtt	cttatcattg	attccactac	tggtgggttt	gaagctggaa	180
tttcaaagga	tggaagagct	cgtgaacatg	ctctgctttc	attcaccctt	ggtgtgaaac	240
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<223> Clone ID: 700554396H1

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gggtctnctt	ctttgccccaa	aagaagacta	cccagaagaa	gctttttgcat	taggggcatg	180
tcagaaacct	cttcacattc	ttctgtgagc	acccaacaag	aacaaccaat	tctgataatg	240
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<223> Clone ID: 700554401H1

<400> 863

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tgagggtgaa aaaggagaga gcagcaattg gggacgatcg atgggcacga cagtgtgcgc 180  
agttgctgag cctgacagac ctctanggtt cccaggcagc acccctctc catggcggat 240  
ggcatctacc tggagattcg gctttgacct tcttggtctt ggat 284

<210> 864

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554402H1

<400> 864

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gcccgtactc cggagggtgaa atgccaagtt ggaggcntgc tgtggaagca cannacatct 180  
ttggctttga naccattccn gaanagtgcg ttgaagcaac naaggntatc atccanngcg 240  
gacnatatag gtcggattcn aaaccgttaa ncaacnag 278

<210> 865

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554403H1

<400> 865

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ctttgacctc cttcagatct atacccttct tttctctctc ntctantttc naattctaca 180  
tcangggnac ggnngntcta cgggcaaana ttgtttnaac caagnatcgg gntntcancg 240  
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<210> 866  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554404H1

<400> 866

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 atggctctnc ttcnggacgt gtctcatcnc cttccantca tcncngggct tcaaagtnca 180  
 cntcnnccag nnaagnnaga acnnangtct t 211

<210> 867  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554406H1

<400> 867

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 cngggcccaga agtgggaagg gtgagcatga aggagaccgt cacnaannag gtctcctnag 180  
 ganagcccat ggtacggccc agaccgagtc aagtattggg cccattctct ggcgagcncc 240  
 cgtctactaa ccggtgagtt cccaggcgan tacggctggg acatg 285

<210> 868  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554407H1

<400> 868

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 gtttttcatc atcatccacg gcaagcaagt ccactgaagg aattgatgga actngtctca 180  
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gcgtggtgtc catgtgatta ggggtgtgaga aatagc

276

<210> 869  
 <211> 224  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554408H1  
 <400> 869

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 acaacacttg ttgcttcatt tttcttttaa actttactga gaaacagaac catcaatttt 180  
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<210> 870  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554409H1  
 <400> 870

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 ggcgcaattc cccccacatg caagcgcata gaggtcccag ctatgatgtc attcacgtag 180  
 gcaacggcta cgaaatccgt cgctataatt caccggtttg gatttcaaac agccccattc 240  
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<210> 871  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554410H1  
 <400> 871

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tgcaaggana gatggaaact catttatagc agcgattttc gtctcgaacc cttggtggaa 180  
 gccgtcctgg tcctcccata ggaagactct tcctattatc ttggacaggt ttttcaagaa 240  
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 gacaactgac gngcactaga tgggtggttat tgtntgcac ctgccgtaaa gttactggga 180  
 tacttggatg ttggaagaag cagctaaata tagcaaaaga tgcccggcgt gtagatgtac 240  
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 tctccaacgg cgggtgccgt ccaatttcga cgcccaccgc caccaccatc gtcgtcgcag 180  
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<210> 874  
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 <213> Glycine max  
 <223> Clone ID: 700554413H1  
 <400> 874

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 cgctaggggt ttnaaagggt aaggattttt gattgntncc natctcatgc tgcaattgtc 180  
 ggntttatgg ggggagctgn catcacaatt gcccttcaac agctcaaggg ntcctttgga 240  
 ttgcaaagtt ttcaaagaaa actgatgtna tctcngtgag catc 284

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 tttagactat gggtaataa atgaaaacgt gagaagagtc aatatgctgt cagagggtgaa 180  
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 aagagtcgct gcgccgcttg tgctttcccc ctgcacgcac gcggaaatat aactggagcg 180  
 tcaaggcaat tcgcagaaag accaccggaa ctggcaggat gagatacttg cgtaacgtgc 240  
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<213> Glycine max

<223> Clone ID: 700554416H1

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ctttcgcgcg	ancacgaagt	attgggaacc	agcaaaattt	ctatggctgg	cgaaccacta	180
tatccaatag	cagtgcctat	agatgagttg	aaaaatgatg	acatccagct	gcggttaaac	240
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<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554417H1

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tcgccctaag	tcatggcagg	aattgcaccc	gnggatcaca	gtttgatgtc	gtcaatatga	180
taccaagatg	aatgagctgc	ttacgtccga	tggtcaggnt	tctcacatcc	tangtgaggt	240
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<210> 879

<211> 163

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554418H1

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nttntncttt	tgagcgnggt	ctcncngttc	ccncatcat	aag		163

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 ggcttgtaaa aagcngcata ggtaccaatt cncngggccn attgggggat tnaatnccgg 180  
 cntngccatn angcnacttc cacnatangn ggtncagntt ggc nanggtt taaaaanggg 240  
 gataatnaa ataannccaa gttgngaagg nccagg 276

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 <213> Glycine max

<223> Clone ID: 700554420H1

<400> 881

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 gccntccggt caccggtggn tcntcttcgg agnacgggtc aaanggntng ncttnantcc 180  
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 acncaagcan aancaggtcg nagaanaggg tttgnagtna nact 284

<210> 882  
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<223> Clone ID: 700554421H1

<400> 882

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 ngccnagaag aggaagtgat cgtgcgggtt ggttcacag gggatgtcgt ttcttatgg 180



tacaataaat gttggtttct tgcccttggt tcttcgtttc naggtagctt gtttttcgga 240  
catagtttga agtctccacc atcatctcgc aa 272

<210> 883  
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<223> Clone ID: 700554422H1

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ctttncctta ncctcttccc anttaaactt antaaaggcc tcttnagcag ctaccaccan 180  
tacancanca acaaccactc tccccacagc tgagacatna atgaggaatt tggcagaaaa 240  
ggcatcaagt tcttggagtc tgataacact cccat 275

<210> 884  
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<223> Clone ID: 700554424H1

<400> 884

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tcgagtccac aggggtccaa attgagcgtc gcagttttgc aggtctggct cgcgccggtt 180  
gcatggtgta tgatatggga ctagccacca ccccggtttg tttcatgagc atttggtgcc 240  
tccattgcct atgatgcttc aatgatgatg anagcttctc acttgc 286

<210> 885  
<211> 284  
<212> nucleic acid  
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<223> Clone ID: 700554425H1

<400> 885

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 gtcgcttggc tatgttctcc atgtttggtt ctttgttcag gctattgtca ctggcaaggg 180  
 ccctattcag aacctttacg accacgttgc tgatcctggt gccacaatg cttgggctta 240  
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<210> 886  
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 aagtgttcgt tagttataca tttgttcaag ttgttgtata gattgattca ttattttaac 180  
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 ttacgatcnc gtactttacc ttggtataat tgacatattg caagagtaca acatgactaa 180  
 gaagattgaa catgcataca aatctattca gtttgattca tatctatctc ggcggtggac 240  
 ccaacattct actcgcgtcg cttcctggat tttattcaga aaa 283

<210> 888  
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 aaccagctcc tcagtctcat catcaacact tctactccaa caaggaaatc ttccttcgtg 180  
 aactcatcag caacgcctct gatgctttgg acaagattag atttgagagt ttgacggaca 240  
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 ctgcagctga ttacgacact gtgtgggatg ttttataccc tctgatttct cctctaccat 180  
 ttctccactt tcttctctta actctaagaa ggatctctat ttcactctct cgcaccgtcc 240  
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 <213> Glycine max  
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 atgaggctat tgcaaagcaa agttgccaaa gatggcggtt gactactacg catctggtgc 180  
 agaggaccag cggactctgc aagagaacag aaatgccttt tccagaattt tgtttcggcc 240

agtattctta ttgatgtgag cagatagat 269

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 ctccgacttg gacggcaccc tcttggtgtc ccctagcgcc ttctcttact acatgctcgt 180  
 ngccatcgaa gccggcagct tcttcgtggg cttgtcctct tggatccgtc ctttcgtgta 240  
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 tacaggaccg cagttagccc actactaaag ggatcgaggt gggcctggcc catggctacc 180  
 ttctggtggg ccatttcgtg aaggccgggc ctctgaggaa caccgagatc gccgggcaag 240  
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 cagctgagga caccattctt cctctacca tgttgtgcat gtgaatacag ctggggctgc 180  
 acctctctct tctgttcttt ccggcagtcn gaacgtggat tcgtgtcaca cacacttatg 240  
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<210> 894  
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 <400> 894

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 tggcaactat atagaaaggg nattttccca agtgaangga gcattaaatg agaatttgta 180  
 gtgncnggac cnaattggcn gcnaangntg ttanggttgc tgnnggaatc cgcctngnat 240  
 ggncnggnaa cnaaaantcn gnncttttcc cag 273

<210> 895  
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 <400> 895

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327

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654445H1 654446H1 654447H1

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gttgtnactt tggttcttcc gagagaaggg agccatatat agaaagtatt ttatggtgcg 180  
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<223> Clone ID: 700554446H1

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ttcactccgc tagcgtcttt nactcaaana tttggtgaaa tagtggaacg tttcgtgaaa 180  
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 aataactana nggncttttt tctcctgcaa accttttcan ncttgactg tgggcagcga 180  
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 ggggcggggc ggggtgcaggc ccggttcggg tttggcaaga agaaagccgc cgccccgaag 180  
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283

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 ganaatcgac cttctcctct gctggngat ttccaagccg tgaggaacga gcatgacttg 180  
 aagagcctga acgtccctct caaataccgc tccatgaact ccttctggaa gtactattcc 240  
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 ggaaagctca gtcgagatct aggtctaggt caagatctag gtcgangtct angcctagac 180  
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 acagggaccg cantgagccc atactaagag ggatcgangt gggcctgggc catgggntac 180  
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 ttctgcagct gattacgaca cctgtgggga tcgttttata ccctctgatt tctcctctac 180  
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 aaaanganat attcgngtgt tctgccgtgt ccgacctttg ctaccggatg atggctcctgg 180  
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ggtgttataa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcgggtcg 240  
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gttgtgtcac ccgatcacc tgaaaccaag aaaacttgca acaaattgtc atcaaccagt 240  
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agagtcacat tntgggtggaa taagagtagc cgcaactgga aaagaaagat gccctctcat 240  
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 gtggtgtgog acgagcacgg catagatccg acggggaagt acgtcggaaa ctacagntcta 180  
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 aagaaagaat cttcggttct ctacatttgt ttcggaa 277

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 tggtgaaggg tctcgtgaaa tcaatctagt tttgagacct gtttactggc agaggtgacg 240  
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<212> nucleic acid  
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<223> Clone ID: 700554517H1

<400> 943

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<223> Clone ID: 700554519H1

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gaggttgtag acaccaaagg gcactttcct cagctaactg caagccttca gctagttgat 180  
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278

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 caccgtcctc tnccttggtc ttccaccttc cccacctnc gaccagcagg tccagtgcga 240  
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 <223> Clone ID: 700554521H1  
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 ggaggggtcag catgaggaag accgtcacca agcaggcctc ctccggaagc ccatggtacg 180  
 gccagaccg cgtcaagtac ttgggcccac tctctggcga gccccgtcc taccttact 240  
 ggcgagttcc caggtggatt acggctggga catgctgggn ttcggc 286

<210> 948  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554522H1  
 <400> 948

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ctagtccctca agtaccacaa cggccagctc ctgaagggcc gcatcaccgt caatctcatc 180  
tggtagcgga ccttcacccc gatccaacgg tccataatcg tggacttcat aaactcgtta 240  
agcagcgcg caaacgcgcc tctcccctcg accgccacgt ggtgga 286

<210> 949  
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<213> Glycine max  
<223> Clone ID: 700554523H1  
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tgtacaaaga gaaaggtggt agggtcggag aaggatagtt tggatattttg caagcaaaat 180  
gagaggtgta agatacacat atgagagtgg ctccatcaaa tgccgttatc acctactatc 240  
aatccaggcc cataaaaaga agcatttcat ttttcggntc ggnt 284

<210> 950  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554524H1  
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taaaatgcgc aagttttagg cttgctgtgg aagcacanna catccgagcc ttaaaaccat 180  
tcctgaagag tgcgttgaac caacaaagga ctacattaat ggcaacaat ttagatcaga 240  
ctctaaaaca ttaaccaaca agctttcttt atgctagtga agc 283

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<213> Glycine max

<223> Clone ID: 700554525H1

<400> 951

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 aagagtcagg aagagttgct tgaactgatt cccaaaattc aggttatggc tcgacccca 180  
 ccttttagaca aacacacact ggtgaaacac ttgcgtacca cttttgggga agtggtagct 240  
 gtaacagggtg atggaactaa tgatgccccg gcacttcattg aagctga 287

<210> 952

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554527H1

<400> 952

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 acctctttcc ccagaacctt ccgtttccac ccactttcac tccctctttc accctttgtg 180  
 ctcttcatgc ctcccaaagc aacagcttcg tatggcactg tgctagtggg gctgctgaag 240  
 gtgataggcc aaggagagata tgggtgcagca ttgttggtaa aaga 284

<210> 953

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554528H1

<400> 953

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 gatgaggttg acttcaagaa gcttgggtct caagttgttt caggcttgag tggtagagctc 180  
 accaatgtta aaaaagcagc tgctatggat tcggacgtgc tcagtagtga tgttgctaaa 240  
 cttccagagg aatcgaaaaa gttgtgcaat tgtaaatga a 281

<210> 954  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554529H1

<400> 954

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 gaccaaccca ggtgaagccc atgaagggtca tgatgggtga tgcaagagaa aagctagaac 180  
 atgtccatgt gcctaaacac aacaagcacc accagcccct ccccaaaaac aaagttgctc 240  
 ctaccccacc cgtagtaatt attaagcttc aatcatcttc a 281

<210> 955  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554530H1

<400> 955

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 cttcaagaac aactacctca tcgtctattc cctcatgatg gctggagatt ggctacaagg 180  
 tccatatgtc tactaccttt acngtacata tggatatggg aagggagnca taggacaact 240  
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<210> 956  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554531H1

<400> 956

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ctccttcctc ttcattcttc ttccctctc tcattcaaga caggcctgtt tttgctgccc 180  
 ctgcccccat catcacccca actgtgagag aggatatggc aaaggaatac gagaaagcta 240  
 ttgaagaatt cagaaatgtt gaggagaaga tgaatcaaag 280

<210> 957  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554533H1  
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 cacttcccac ttcncttctt tgtacactgt ctcacctcc caccacggg tcttctttca 180  
 tgccaatttc tnantttctn ccatcccat cttggaagaa gaaccttctt ccaacacccc 240  
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<210> 958  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554534H1  
 <400> 958

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 tgtcaataat atcacatgac aacgctcatg cggatagggc caccaggcgc accgacgacg 180  
 aggtgatgtc aatgttcgag gagtggctgg tgaaacacga caaggtgtac aacgcgctcg 240  
 gtgagaagga gaagaggttt caaatottca agaacaatct gcgcttta 288

<210> 959  
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 <213> Glycine max  
 <223> Clone ID: 700554535H1

<400> 959  
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 tagtctcaa gtaccacaac ggccagctcc tgaagggccg catcacgcgc aatctcatct 180  
 ggtacggcac cttcaccccg atccaacggt ccataatcgt ggacttcata nactcgtaa 240  
 gcagcgcgcc aaacgcgcct ctcccctcga ccgccacgtg gtgg 284

<210> 960  
 <211> 283  
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 aattcaccca accttgtttt ctcccaccac caagttcttt tcttccaaaa gcccctcata 180  
 ttcaggtott tccaattggt tctcaaacac ccttttgcag agacctttgc tttttgctgt 240  
 caaggtttca tctgggggtg gctcagaagc atccaaacag gag 283

<210> 961  
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 <212> nucleic acid  
 <213> Glycine max  
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 cttctccttc ctcttcatct tccttccctt ctctcattca agacaggcct gtttttgctg 180  
 cccctgcccc catcatcacc ccaactgtga gagaggatat ggcaaaggaa tacgagaaag 240  
 ctattgaaga attcagaaat gttgagggag aagagtgaat c 281

<210> 962  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554539H1  
  
 <400> 962  
  
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 tgcttttaac tatggagtat acttgaaaat atgatgccac attgatgctg gattgaccgt 180  
 cattaactat gaaaggaggg aaattctttc atgtcatatc caaattatgc gtgtgtgtct 240  
 gtggatgttt tcatatattg gaagccatct atgtagaacc t 281

<210> 963  
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 <213> Glycine max  
  
 <223> Clone ID: 700554540H1  
  
 <400> 963  
  
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 ggtctggacc tggggtttca gctcccagtt catncnnatt tgggagcagc ttgaagaagg 180  
 ttattggctc aagggtcccc aacacaaaga ttcctctgga agcttcaaga tgttgctgta 240  
 gaagagaaga aagagatgaa gagaccagc agaccgacaa g 281

<210> 964  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554541H1  
  
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 ctgttgagc taaaaaggtc acatgctccc ttcaggctga tcttaaggac ttggctcaca 180

agtgtgttga tgctaccaa attgcaggat tgcctcttgc cacctctgcc ctggtgtct 240  
ctggggcaag tgctgaaggt gttccaaaga ggctaacttc gacg 284

<210> 965  
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<212> nucleic acid  
<213> Glycine max  
  
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cttttcaatc actccccacc tttggaattc aagggtttga gcaaggagga ggaagactca 180  
ttgctagggc aagtagaaat atggaggtag atgacatgct tcacggactc cgtggcttga 240  
aagctgtcat agagctcgta tagcggacat actagaccgt tag 283

<210> 966  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554543H1  
  
<400> 966

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gttcctgccc tcactttcta gattttctgt caagcgccg tacttccttt cccaaactta 180  
tccgcgcatt gctgtgaaca agccctccat gaacctgttg aacagactcg ggtttggcag 240  
cgcaagagca acagagaaca ggattcatcc attcctcagg tc 282

<210> 967  
<211> 269  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554544H1  
  
<400> 967

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tgcggtgcttt gtatggagac gactactatg tctgcagatt tcagaaacca ggcgaaatgg 180  
aagctcagat ggctgaagtt ggcactgggt atgttctcaa aaacatccta caagtcgcaa 240  
aactggtcct ccacccctcc gcatggaga 269

<210> 968  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554545H1  
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tcgttgccgt tgatccacgc gccggcgaat ttcagttttg attctccgcc accgttttgg 120  
ctgttggttac tttggttctt ccgagagaag ggagccatat atagaaagta ttttatggtg 180  
cgccgatgag cagaactgat gttattggca gtagaaggag gaggatcttc tctgcttcgg 240  
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<210> 969  
<211> 291  
<212> nucleic acid  
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<223> Clone ID: 700554546H1  
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acagttcaaa gggtagcaa gcaatngan acacatgcnc aatcctggag agnagtaaag 120  
aggagccggg atggccgtct ttgcggacag cttcattgtn gatcttttct aagcnttccc 180  
ttgnagcatt agctagnaca ttncattccn attcatacnc tcanatttca gacctagcaa 240  
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<210> 970  
<211> 280



<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554547H1

<400> 970

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aagcccaaaa ccagaatcca gaattctcac agcagaagag ctcaacttcc aaataggcgt 180  
ttgttctctt tctctctgcc tctctctagt ttcttctcc ttctgttcc aagctttggt 240  
gatggtaaca agcaatcata tgataaactt caaagtgggc 280

<210> 971  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554548H1

<400> 971

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aattgcaccc gagggatcac agtttgatgc tcgtcaatat gatagcaaga tgaatgagct 180  
gcttacgtcc gatngtcagg atttcttcac atcctacgat gaggtttatg acagttttga 240  
tgctatgggc ttgcaagaga atctcctgag aggcntttat gcat 284

<210> 972  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554550H1

<400> 972

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caagcctacg gtgatcatc ctgtataata acaaaacaac atttgaacc taacttgggt 180  
gggtcactg ttgagcaggc tatccagagc aagaagctgt tcatcttaga tcaccatgga 240

ctatctcatt ccatatttga ggaaaataat gcaattacca cag 283

<210> 973  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554551H1  
 <400> 973

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 aaagtcggag ctgttcttcg tcaatttggg tatactgtgg tagctttaca tggctgtttg 180  
 agaacagaaa ttcagacacc tagatcaggt agagccatgt tcaaggaccc ctggcattcg 240  
 gctggcagca gaggtatcca aatacttgac caatttcga 279

<210> 974  
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 <213> Glycine max  
 <223> Clone ID: 700554552H1  
 <400> 974

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 gatgccaaagt tccgacatgc cttccaaaac tctaaaactc tctctctccg acaacaagtc 120  
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<210> 975  
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 <212> nucleic acid  
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 <223> Clone ID: 700554553H1  
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gcgaacaaat gataattcat ttgtattatg cgaacaaatg tcagttttat ttggaggctt 240  
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<210> 976  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554554H1  
  
<400> 976

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ctcagaacct cgacgggtggc actgtgcgcg tctctcttta gttccaaacc tncgattccg 240  
ctggcctttca acaacctcaa tcggaggcag cgttcaaggc ccaa 284

<210> 977  
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<212> nucleic acid  
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<223> Clone ID: 700554555H1  
  
<400> 977

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ccaactgagg canntataa tgattgcac cggatggag atcccaagca ccgcancact 180  
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gtgcttgccg ttntntgtn gtangaagta nacttg 276

<210> 978  
<211> 277  
<212> nucleic acid  
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<223> Clone ID: 700554556H1  
  
<400> 978

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 gggttttccg gcggtgaagc tggagcctga tgtcatgccg gcgttgatta atccgtgtcc 180  
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<210> 979  
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<210> 980  
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 <213> Glycine max  
 <223> Clone ID: 700554558H1  
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 tcggcaaatt cctcatcggc gtacccctct gcggcgcccg ccaccacttc ntcgacatcg 180  
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<210> 981  
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<212> nucleic acid  
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 <223> Clone ID: 700554559H1  
  
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 cagatgatga tgctgatcgt gttcagagtg gaaaattgag tgagagtagt ggttatgctg 180  
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<210> 982  
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 <223> Clone ID: 700554560H1  
  
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<210> 983  
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 tttggaaaca agctgaagga aattgaggac aaaatctcag ggaggaacaa gaattcaagc 180  
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269

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 <223> Clone ID: 700554562H1  
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 agtgaaaagg accaacaaca acaattgcag ttccaatacc acaaaggccc tcttctcagt 180  
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 <213> Glycine max  
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 ccaactgagg caaatataac tgattgcac cggatggag atcccaagca ccgcaacact 180  
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 <223> Clone ID: 700554565H1  
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 ctcacccctct gtttactccc agcggaatca tagaatttta taaaaaatac ggtccttcta 180  
 tattcaatga aactagtggg tgggataatg cattccccggg tcccaagtac gacggcaagt 240  
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 tcttcaagca gcagaagtat cctgatgctg tgaagcatta cacagagtct atacgaagaa 180  
 atgccaaaag atcctagggc tatagtaaca gagcagctgc tacactaatt gggggcatgc 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554567H1  
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 cactggccac ctgatctaca agcttgaggg cattgacaag cgtgttattg agagatttga 180  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554568H1

<400> 989

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 nncaacagct atggtgttat tgtagagact gagaagagtt acatcgagac tggtgtcatg 180  
 gatgttccag cagctgagca tgatgggaag tgcaagtgtg gcactaactg cacttgcang 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554569H1

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 caagttgtgt tggcacttca cctctatatt taccagttgg tattggaaat tttcctcatg 180  
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<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554570H1

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 nnnnnnnnnn nnnnnnnnnn nntgtgatgg gagttgccgc aggggctagc caaatggcct 180  
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<210>      992
<211>      261
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<213>      Glycine max

<223>      Clone ID: 700554571H1

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tacctagact atgaactatt ttacttcagt tttctttttg taatgtatga tgaacctcaa  180
agaaagggtc agagacgcag acaattcctg tactgtatga actataaaaa aatgtttgga  240
ggtaaagaaa ttattttgtg c                                           261


<210>      993
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<212>      nucleic acid
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<223>      Clone ID: 700554573H1

<400>      993

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tggaagagta aattacngga aaccgaataa ccgtttctcc gtgaaagcct ccgccaaga  180
gattgtnttt gaccagcatt cccgctctgc tatgcaggcc ggcattgaca agctcgnga  240
cgctgttggg nnnagtnttg ggcccagagg gaggaatggt g                                           281


<210>      994
<211>      277
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554574H1

<400>      994

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ttttcttcaa tttgattact tcagtgaggc agtataatca acacactnat atgcagacac 180  
 aaaattatgt ggatccttgc aggcattctca gactccagtt gatgagatga tgagacagcg 240  
 tatgttgatc ctaatgatcc aacaaaaata ttctggc 277

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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554576H1  
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 agggccgatc ccgatcgccg gagagcctcc tccgccaaact ggtggacccc gctgttcggc 180  
 tggctcctccg agccggacta cattgactcc aacaacaaag catcgagtct tcaaccggca 240  
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<210> 996  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554577H1  
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 <212> nucleic acid  
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caggccgcaa acaccaagtt attcaagcaa caaaactatc cggaggatta cgtgttcgag 180  
gtggcaatgt taaatggagg gcntgaggtt ggataccggc attactctgg ggtagtgaa 240  
gcntttactc gca 253

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<223> Clone ID: 700554579H1

<400> 998  
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tttcgaaaat agtggatctg aataaagagg aagttcgagt tgtggatatc ccctatcgaa 180  
tatgtccttt gggggcacac attgatcatc aggggtgggac cgttgcagct atgacaatca 240  
atnagggaaat acttctgggg tttgtcctc tggca 275

<210> 999  
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<400> 999  
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tacgacaagg agcgaccgg agtncacatg gccgaagcag gtgaatgcta ccacttgagg 180  
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<223> Clone ID: 700554581H1

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 tggcaactat atagaaagga tatttccaca agtgaaggga gcataaaatg agaatttgta 180  
 gtgtcggaac caaatttggc ggctatgggt gttaggtttg cttgatgata ttctgcttga 240  
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<210> 1001  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554582H1

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 caangtnatg nttagtntnt aatggnantt ntctgttttg aanntnctt gggnggatc 180  
 actgttganc ctttttgttt ggaatgagtt cttactcgt ggaatcagga atagtctcca 240  
 gaatacttcc tggactatag ccttagtgta ggct 274

<210> 1002  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554584H1

<400> 1002

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 tcttgacca agatcactcc aatctccatt tggcttctcc agaaaagcct cctttcttgt 180

taaggcagct gctaccccc ctgttcaagc aaggatcaga cagacctttg tggtttgcat 240  
caaagcaaag tctttcttac ttggatggca gccttc 276

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<212> nucleic acid  
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<223> Clone ID: 700554585H1  
  
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cgaaactgag gccctcaaag tataaacttt ggtggtggtg ggtaggatct ggcgggtgtat 180  
gatgggatct taccatatgc ccgttgagaga ctccggcgag gttgctttgg accacaagct 240  
tcttcctgca taagcttatg accttctaata aatta 275

<210> 1004  
<211> 274  
<212> nucleic acid  
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ctatgatgca aatgacacag cacaatttgc tgagctcttg acacaaggag aactgacccg 180  
tagagcatgg gaaaaggatg ttcaggtgat gaatgaaggg acctgggaca catcccaatg 240  
cacaagattc ctgaaaacat gcagaaacat taga 274

<210> 1005  
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 tctatgatgc aaatgacaca gcacaattnc ctgagctctt gacacaagga gaactgaccc 180  
 gtagagcatg ggaaaagggg gttcaggtga tgaatgaagg acctgggana cattccaatg 240  
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 <212> nucleic acid  
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<223> Clone ID: 700554588H1

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 gaacaagcac cgaccctcaa tggactgtc cagaacagtg gagctgagaa aagaaacatg 180  
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 taaaatgcgc aagttttagg cttgctgtgg aagcacacaa catccgagcc gttaaaacca 180  
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<210> 1013  
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 <212> nucleic acid  
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 aatttttagtt gtgtacccat aactccatgc atgcaactcg ttgagctatc tcaataaatg 180  
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gctgaaaagg gtatcaaata tgagtccaaa gaagaggact tgcagaacaa gagccctttg 180  
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<210> 1015  
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<212> nucleic acid  
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<223> Clone ID: 700554608H1

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<223> Clone ID: 700554610H1

<400> 1016

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<210> 1017  
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 aatggaagga gcaaagagtc gtctccatth ttttgaaatg gatcttcttg acatcgactc 240  
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 ccttgcaagg ctgagaatca gagttgtcca tacttttatt ggtatggtga tggttccaac 180  
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 ccctgtcctt cgacccatcc gcaccaatca ctcttctct tccccttcc gctctctccc 180  
 ctctcccgcc gccagaaaac ccctaaccgt cttcgccatg gccccaaaa agaaggtgaa 240  
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<210> 1023  
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<212> nucleic acid  
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 <223> Clone ID: 700554618H1  
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 aggggcgcta gtgcaaagg tttctttgag gtcacccatg acattttctca cctgacatgt 120  
 gcagatttcc ttcgagcccc tggagttcag acgcctgtaa ttgttcgttt ctcaactgtc 180  
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<210> 1024  
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 <213> Glycine max  
 <223> Clone ID: 700554619H1  
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 acgcagaacc tccggcagaa attgccaccg caaacacgtg gaagacgggt agtagtactc 120  
 catctcccat tctctcatat tccctttact aattaaagat catgaacagc gagagacagt 180  
 cgacgacgac gacgttgctg cacggcaagt acgagctagg tcgtgtgctg gggcacggaa 240  
 gcttcgccaa ggtctaccac gcgcggaacc tgaagacggg 280

<210> 1025  
 <211> 115  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554620H1  
 <400> 1025  
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 agtnccngtt ggnnangtgc cacanggaac cctgggtggga gcagttcaca attgg 115

<210> 1026  
 <211> 278

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554623H1

<400> 1026

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 ttcttaatat ggtaggcaag taatttacga gtgatgcttt gggaatggtt gatgatccac 180  
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<210> 1027  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554624H1

<400> 1027

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 agaaaaactg ttaaaaatat tttccataaa agaaaaaaaa aacacttgaa gtggttattt 180  
 tgtgcataaa tatgatagtt taacaatnca cttgactcat tgttgtttat ttggtaaata 240  
 ctttttnnaa gttttacttt ttgttcccat tgggtggggt 279

<210> 1028  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554625H1

<400> 1028

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 agatctaaag aaaaacgcgg gttggattat attagtaaca agtaaattct ttgtacgtaa 180  
 aaagttccaa gattttgttg gacagaataa caattgcnaa gtttgagatc acccagaaag 240

cattatcaat tttaaaagcc tactcgggta ttgagcgt

278

<210> 1029

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554626H1

<400> 1029

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agatacttct tatgcaacta tagtgaggct aagagttggt gcataattaa tcaaaatggt 120

ggccatattc cacaaagctt ttgctcatcc acctgaagag ctgaacagtc ctgcatctta 180

caaagggtcc aagaagccta aggttcctga ggaaactctc aaagattcct tcccaccat 240

cctcacaaca cttgctccag agctttggtg aagctgc 277

<210> 1030

<211> 87

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554627H1

<400> 1030

gttgagttat ttctgtacag tagagaagta tatgtatcag attatatcgg tggcttttaa 60

acatgtaacc tttccttttc taaaaaa 87

<210> 1031

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554628H1

<400> 1031

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cttcactgc caatgcactc aaactctctt ctgtctccag acctcatctc ttgcctcctt 120

tttctttctc cagatgctta tcttcctgtt tggatggact taagtacgct gattcacatg 180

aatgggtcaa gcacgaaggc tcagtcgccca ccattggtat cactgaccat gccaggacc 240

atcttggaga ggttgtgtat gtggagctgc cagaacc

277

<210> 1032

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554631H1

<400> 1032

ctttggtggc cacagcaaca ataacaatgg cagcctcact acaagctgca gctaccttca 60

tgcaaccac caaggtgggc atggccactc gcaacctcaa atctacacaa tgcatttcta 120

aggcttttgg cttggaaccc gctgcagcta aactcatttg ctcccttaag cccgatctca 180

aagattttgc tcaaaaatgt gtcgacgcca ccaaaattgc aggattcgcc cttgccacct 240

cagctctcgt tgtttcggga gcgagtgcag aggtgtcc 278

<210> 1033

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554632H1

<400> 1033

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cttcactgc caatgcactc aaactctctt ctgtctccag acctcatctc ttgcctcctt 120

tttctttctc cagatgctta tcttccgtct tggatggact taagtacgct gattcacatg 180

aatgggtcaa gcacgaaggc tncagtcgcc accattggta tcaactggacc atgcccaggg 240

accatcttgg agaggttgtg tatgtggagc tgccagaacc agtgg 285

<210> 1034

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554633H1

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aggggcgcta gtgcaaaggg tttctttgag gtcacccatg acattttctca cctgacatgt 120  
 gcagatttcc ttcgagcccc tggagttcag acgcctgtaa ttgntcgttt ctcaactgtc 180  
 attcatgagc gtggtagccc tgaaaccttg agggaccctc gaggttttgc cgtgaagttt 240  
 tacaccagag agggtaattt gaccttggtg gaaacaac 278

<210> 1035  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554634H1  
 <400> 1035

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 ccggcggttt atatgccatt ctttcatcct caacctctgc tagctctgag atggaagtgc 180  
 cgtttggcag cgcacggcgt gagagcaaag aacgtgacga tgggtggctcc gggctctatc 240  
 ctgcgcaggg tgccaccacg gtcagtcgtt ggaagaaa 278

<210> 1036  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554635H1  
 <400> 1036

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 aggaagagac agagggcagc tatggtagat tatacttggt ctggtgggga tagggttgat 120  
 gcatgcagtg aagaaagttg gcaggaagga gttattacag atcagaacaa gaaagataaa 180  
 acattaactg ttcacttccc tgtcagtgga aaaacaaaac ttgtcagagc tggcatctac 240  
 gtccatcccg tttttggaag gatgggaaat ggatt 275

<210> 1037  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700554638H1

<400> 1037

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gcaagttggg agccaaggca ttcgaggtac tgcataggt ttccatggca gcagtatgta 120  
aaagtcggag ctgttcttcg tcaatttgggt tatactgtgg tagctttaca tggntgtttg 180  
agaacagaaa ttcagacacc tagatcaggt agagccatgt tcaaggaccc ctgcattcgg 240  
ctggcagcag aggtatccaa agtactgata gaact 275

<210> 1038

<211> 111

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554640H1

<400> 1038

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atctcaaccc catcaaagac gcaactacag ttttttccac caaaagcagg t 111

<210> 1039

<211> 135

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554641H1

<400> 1039

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acagagtgaag gagggcccca tagatgatct catggaactt gtgcaacaaa ttgttgcttt 120  
tcacatgaag cataa 135

<210> 1040

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554642H1

<400> 1040

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 ttatganaga tccacatgta gctgcagatg gttttacata tgaagctgag gctatacgag 120  
 gatggcttga tgggtggcat gacaattcgc ccaatgacta acagtaagct tgcacatcac 180  
 aatcttgctt ccaaccgcgc tcttcgcttc tgcaatccag ggactggctt caaaaccact 240  
 gatcaagctc attatcttct ctgcccattt gattgaac 278

<210> 1041  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554643H1  
 <400> 1041

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 acaacatcat cncctggaaat gctggctatg tccttgaaga tgtccctcat ctatctaact 120  
 acatccctca cctcactaca tatcgtaatc cattgcaaga caatccttcc tattcagttg 180  
 ttgaggagca ttctgttgat gtggatgata ctattgcgca aaaggcaa 228

<210> 1042  
 <211> 271  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554644H1  
 <400> 1042

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 tgacgtttta gcagagtgc ccatctaagg agcagcaagg atgtatgtta aaggatacaa 120  
 gtatttcaaa gtatacctct tgtcatgatg acttggttaag taaagggcaa gagtctgcag 180  
 ctgttaccaa catacagcct caggttctca ctcatcttca gatttgaaat tggagtctct 240  
 aagttagaaa agcagagaca aatacaagtt c 271

<210> 1043  
 <211> 180  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554645H1

<400> 1043

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cnttgngggtt tcaggcngag agaancanat ggagcgcgct atttccgant tttcggagga 120  
gcangggagc cggtnccctcc nngttcgcaa tctccctcca ngaancgaac acaattgnng 180

<210> 1044

<211> 190

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554646H1

<400> 1044

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tcaagcgtga actgcaagag actgtacaat atccagttga gcncccagaa aagtttgaga 120  
agtttggtat gtctccatct aaaggagtac ttttctatgg tcctccagga tgtgggaaaa 180  
ctttgttagc 190

<210> 1045

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554647H1

<400> 1045

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aatgttgang gnaaacagan ataagtttga cctcgttatc agcgatgtga atatgcctga 120  
cattgatgga ttaagctcc ttgagttggt gggacttgaa atggacctac ctgtcatcat 180  
gtggtcagca cacggtgata caaagctggt gatgaagggt gttncacang gtgcatgtag 240  
actatttgct ggaaactgtt cgaattgnag agtggg 276

<210> 1046

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554649H1

<400> 1046

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aaccgaaaa tcaaccaccc ccaccatcat tttcattctc attctcctct ctctgttttn 120  
tctatttctt ttctttctta tcgctcccca tttacttggt ttttcatttt tgcaggggtt 180  
cttttgctca tcaccacctt cttcatattc cctctccaac catggacgtg ggatcgtgga 240  
gttcttctcc ctccaagata aagtcccgat tctccttc 278

<210> 1047

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554650H1

<400> 1047

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ggctctctca taccatccatc ttggctggca aggccgtgaa gctgggcccc tcagccccag 120  
aagtgggaag ggtgagcatg aggaagaccg tcaccaagca ggtctcctca ggaagcccat 180  
ggtacggccc agaccgagtc aagtacttgg gccattctc tggcgagccc ccgtcctacc 240  
taaccggtga gttcccaggc gataaggctg ggacatg 277

<210> 1048

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554651H1

<400> 1048

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atcagcccca gaagtgggaa gggtagcat gaggaagacc gtcaccaagc aggtctcctc 180  
aggaagccca tggtagggc cagaccgagt tcaagtattg ggccattct ctggcgagcc 240  
ccgctctta cctaaccggt gagttcccag gcgat 275

<210> 1049  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554652H1

<400> 1049

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ataagaaggg agccgccacc aaggctagga aaccgcgagg caaggggaag gcagcgaaag 180  
accctaacaa gccaaagagg cctccaagtg ctttcttctg tttcatggag gagttcagga 240  
aggtattcaa caaagaacat cctgaaaaca aagca 275

<210> 1050  
<211> 264  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554653H1

<400> 1050

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aaggaggaac ttgatgttcg ccgcggcggc ggggcctgct gtttgctctg ttgctgggat 120  
ggcagtggca gatgagccaa aaccaggaac cccatcagcc aagaaaaagt atgctccgat 180  
ttgtgtcacc atgccaaactg ctaggatttg tcgcaattga gggactcggg nnttatntta 240  
cttctgatga tcggaaatgt gcat 264

<210> 1051  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554654H1

<400> 1051

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attaaagggt cataatgaca accacaccat gtttggtttt gtagttatgc tagcttgatg 120

atttacccaa gtgtgttgta tgttgatatt gatattgggt ccctcaagac tattattgtc 180  
 tgtctggatt atgttttttag tcataatttg ttttgtcact attatggcaa atgaaatata 240  
 agtgataaat gttgttttgc ctgtagattt nnc 273

<210> 1052  
 <211> 183  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554655H1  
 <400> 1052

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 attattgaaa ttgaataagt aaacaattta attggattgg tcgaatggta tcaaaaaaat 120  
 ggagtactaa ctcccatttc tatttattat tgaattaacc gatcaacttg ctttgttattc 180  
 gaa 183

<210> 1053  
 <211> 272  
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 <223> Clone ID: 700554656H1  
 <400> 1053

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 actgtgatgc ggctgcttgg gcagaacca actgaggctg agctgcagga catgataaat 180  
 gaggttgatg ctgatgggaa tggtagcatg atttcccaga attcctcaat ctcatggcgc 240  
 gcaagatgaa agacatgatt cagaggaaga gc 272

<210> 1054  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554657H1  
 <400> 1054

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 caagtgaac ggacagattc ctttgctttt tctccaacaa agaaaggagg gaacaagcta 180  
 gaaaagcatt agaagggtgca ctaagtggga agaaaaatga atttgacaag tggaacaagg 240  
 aaattaaaag aaaagaagag ctgggaggtg gaggtgac 278

<210> 1055  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554658H1  
 <400> 1055

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 ttgtttttga tttcttcctc atcattttgc atatacaaag attaaaatgg aagggttttt 180  
 tggaaattgc ttcaatatga ttttgctgat gttgtgcttc accaacttga gcatagcttt 240  
 tgctcaaagt catatgaatg gatttggaga gcagcc 276

<210> 1056  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554659H1  
 <400> 1056

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 acaactaatc ctgactgggc taactttcag acgtattctc ctataacctcc acatgggttc 180  
 ttggcatcaa gcccccaagc ccacccatat atgtggggcg tccagcatat tatgcctccc 240  
 tatggcatcc accttcatcc ctatgttgca ng 273

<210> 1057  
 <211> 271

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554660H1  
 <400> 1057  
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 cagccaccct tgcgtggaag gagcaatgca tcatgattgc cccatttgct ttgagtattt 180  
 gtttgaatct gtgaatgatg tcaactgttct gctctgtgga catacaatac ataagagctg 240  
 cctaaaggaa atgagggaac attccatagc a 271

<210> 1058  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554661H1  
 <400> 1058  
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 gaacaccaga tgatctataa ggagtgggtc aattacgctg attcagatag cgatggccgc 180  
 attacgggga gtgatgccac caagtttttn cgccatgtnc catttgctcc gcgaagatct 240  
 taagcagtgt gggctattgc agtttcaaag cgacaa 276

<210> 1059  
 <211> 169  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554662H1  
 <400> 1059  
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 aaccaaggct ttaacttgta tcgtgccatt gataattaat taaatattga ggagtacatg 120  
 aagtatatcg agaagtttga actattaagt atgtccaaag cattttgag 169



<210> 1060  
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 <212> nucleic acid  
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 <223> Clone ID: 700554663H1  
 <400> 1060  
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 cccagaagt gggaagggtg agcatgagg 149

<210> 1061  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554664H1  
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 cgcagatcca aaatcaattt ctgcaaata tcaagtacat ttcacaaaaa gtgtcactca 180  
 gtggttcact aaggacggag tcttagttga gggcctgttc tggaaggatg ttgaagcttg 240  
 atagttcaat atacttaaag aaccaaagaa gagcagta 278

<210> 1062  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554665H1  
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 agaccgacaa caaactcact cttaccaagt ccgaggaagc tttcgctgct gccaaaggagc 180  
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 ttgtgattga ttcagtcaaa gggctctcgt tgtgg 275

<210> 1063  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554666H1

<400> 1063

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 ccaagaaaga gatgatttga aggaggctct agagaatgaa tctagcaagg tgaatcattt 180  
 gaagcatgaa ctccaagtca cccaagagaa tcttggcaaa atcaagaaat gagtttgctg 240  
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<210> 1064  
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<223> Clone ID: 700554668H1

<400> 1064

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 cgctaccaag ttatcggttg ttatgagtct ggagaggcat gacacggata ctgctgggtc 180  
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<223> Clone ID: 700554669H1

<400> 1065

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 <213> Glycine max  
  
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 gcatcctttt tctttctcca gatgcttggtc ttccgtcttg gatggactta agtatgcaga 180  
 ttcacacgaa tgggtcaagc acgaaggctc agtcgccacc attggtatca ctgacctatg 240  
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<210> 1067  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554671H1  
  
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 aaaccttctt ctctctccat cgttcggttt cgccctctca ctccctctcc tcgctttcgg 180  
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<210> 1068  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554672H1  
  
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ccaacacccat tgaggagaaa ccttggtggtg agcctgttga gtacaattat tcgggcttgg 180  
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<210> 1069  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554673H1  
 <400> 1069

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 caactagaat ttctgagatg cctcgcctt ttttctaaat ctcagtttca cctcgcgcgc 180  
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<210> 1070  
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 <213> Glycine max  
 <223> Clone ID: 700554674H1  
 <400> 1070

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 taaatcagtt 130

<210> 1071  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554675H1  
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 cagactctgg agtgttccta ttactactct atggagtcag atgactcaac tangagcact 180  
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<210> 1072  
 <211> 271  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554676H1  
 <400> 1072

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 gatcgcagaa gagccaaata ccaactgac catacagtgc gtactcacia ggggtgcagat 180  
 gacagatcat atggtttgtt cttccaagaa gaagatgaga agaaaacaat tgggtgtggca 240  
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<210> 1073  
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 <400> 1073

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 agcttcttct caacaaccat attcatatcc atgcaagatc aataataatg ttcatttggt 180  
 gaattgtaat cctaaacctt ttgggcactc cttgtactaa tatatcgttt catagttcct 240  
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<210> 1074  
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 <223> Clone ID: 700554678H1

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 aagaagattc agcaagcaag acccctcatt tccgtgggta acaaggctgc ctctctatct 180  
 tccccctggg acagcaccca gcgtcggcgt tcggtttcgg ctggacaatt tggggccgca 240  
 acgggttcga ggaagaggct aagagaaagg 270

<210> 1075  
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 <212> nucleic acid  
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<223> Clone ID: 700554680H1

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 tgggtgtaaag aaacacttgg caccattttt accttcacac gtgtgataga aactggtgga 180  
 attcctgccc ctgacaaacc tcaaccactt ggtaccatcg ctgctgcacc aggggcttca 240  
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<210> 1076  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554682H1

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 ctacttcaag atcggcgcgt gcaggcacgg cgaccggtgc tcgcgtctcc acacgaagcc 180  
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<210> 1077  
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<212> nucleic acid  
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<223> Clone ID: 700554683H1

<400> 1077

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 cttccttatg agtacataga caacaatcca attcccacca tagtcttcaa gggtcgcca 180  
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<210> 1078  
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<223> Clone ID: 700554684H1

<400> 1078

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<210> 1079  
 <211> 142  
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<223> Clone ID: 700554685H1

<400> 1079

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 <213> Glycine max

<223> Clone ID: 700554687H1

<400> 1080

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ttcaattttt ttactagcta actaaatgac cagaagatga gtttnggaca tattttgtat 180  
cattaaattc caacattata ttacttttcc tacttatcta atagtaattg ttttncaaca 240  
acttcatatc atattatatn attccacanc c 271

<210> 1081  
<211> 267  
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<223> Clone ID: 700554688H1  
<400> 1081

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agctgttttg tcccaccatg gaagggccat agaaatgtcc aaagatcata ggccaaactg 180  
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gccagttagg tgtcatcgtg ctctgga 267

<210> 1082  
<211> 88  
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<210> 1083  
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<400> 1083



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ctgtgaccca tgnagcant 79

<210> 1084  
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<223> Clone ID: 700554692H1  
  
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ttttggtttg gaacctgttg gagctaaaaa ggtcacatgc tcccttcagg ctgatcttaa 180  
ggacttggct cacaagtgtg ttgatgctac caaaattgca ggattcgccc tgccacctct 240  
gccctcgttg tctctggggc aatgctg 267

<210> 1085  
<211> 92  
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<223> Clone ID: 700554693H1  
  
<400> 1085

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<210> 1086  
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<213> Glycine max  
  
<223> Clone ID: 700554694H1  
  
<400> 1086

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ctc

183

<210> 1087  
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<223> Clone ID: 700554696H1

<400> 1087

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gtctcagtca aggtgttaaa aactttttgc tcataaagag ggggatcttc tgccacaaat 180  
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<223> Clone ID: 700554701H1

<400> 1088

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aagttgttga agctttggtt aagatggtta gggagcctat tgggagcact tccaccaagg 180  
cttgtttggc aacaattttt aacttgggtg cgttggctgc gaatagagag ggaattgctc 240  
aaagatttgt ggagttgggt ttggtttcac ttttgctaga ggctatgttg atggagagaa 300  
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<223> Clone ID: 700554702H1

<400> 1089

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ggtgccttgg cttgtactga ttcaattcag aagcttgagg ttcagaagca cttgaagaac 240  
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<400> 1090

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aagaggtgct tccacagggt atgacaatgc agttgctttg cctgctggtg gaagaggaga 180  
tgaggaagaa cttgccaagg aaaacaataa aagtgcctca tcatccaagg gcaaaatcac 240  
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<210> 1091  
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cgcggccccc ttgtcgtcaa gaccgtcgcc gccacgctgc tgggtggtgct cgcttcctcc 180  
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<210> 1092  
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<212> nucleic acid  
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 atgggttaaag tatataagtt catctagagt aatgaggtca gatgtacaaa gg 292

<210> 1093  
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 gattgtcatg tgagtgggt caatgatgtt caaattggta ccatgtggtg aggaggtaga 240

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<210> 1098  
 <211> 291  
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 aggtcttaga cccctcgcaa gggtcaccaa agcctcatca accaaagtga gcaccaccac 240  
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<210> 1099  
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 <223> Clone ID: 700554713H1  
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 gagcatgagg aagaccgtca ccaagcaggt ctctcagga agcccatggt acggccaga 180  
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<210> 1100  
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attagagtaa	tgaagttagc	atgtagagat	tattggTatn	atnagaatct	taaaganatc	180
agacaaattg	actgattaat	gtattgTTTT	gcccgTgatt	ttgtctggat	gaatggatta	240
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<223> Clone ID: 700554716H1

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<223> Clone ID: 700554717H1

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agataaatcg	tctctcgaaa	catggaaatg	tggcagtgac	gatattgcag	attcggatag	240
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301

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<223> Clone ID: 700554718H1

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<223> Clone ID: 700554719H1

<400> 1104

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ttccttcctt tttctagaaa atctacagag gatttccatt ctgtcattgc cttccagacc 180  
tatgcagttg gaagcagtgagg aggatacaag aagggtgtga cagaagcaaa actgaagggt 240  
gccataaacg gatttgaag gattggaaga attcttgagg tgctggcagg tc 292

<210> 1105  
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<213> Glycine max

<223> Clone ID: 700554720H1

<400> 1105

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gataataagc cagtagaaac cgatactggt tacgacaaca catcatattc caagccttct 180  
gatgactatg actctggttt caacaagcca tcgtatgagt cttctggcgg tggtatgaa 240



ggtggttaca acaaaacatc ttattctagt gatgagccag cttctggtgg tggct 295

<210> 1106  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554721H1

<400> 1106

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aacgaccctt tcatcaccac cgattacatg acatacatgt ttaaatacga cagtgttcat 180  
ggacactgga agcatcacga tgtcaccgtt aaggacgaga agaccctctc ttcggtgaca 240  
agccagtcac tatttttggga cacagaaacc ctgaagagat cccatggggg t 291

<210> 1107  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554722H1

<400> 1107

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ttaattactc atggagatcc gtgccgntgc agataccagc tccttttcaa gtttggttcgc 180  
agctgtgtca tatggattta catcaatggc catggttttt atcaacaagg ctgttctatg 240  
cagtatgcat attcaatgac tctcctcact ctgcagcaat g 281

<210> 1108  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554724H1

<400> 1108

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<223> Clone ID: 700554728H1

<400> 1111

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agaccgcgag ttgcagtttc aataccacag aggcctctc ctcaaaggca aaatctcagt 180  
aaacctcatt tggtagcgta aattcaaacc ttctcaaaaa gccatcggtg ctgatttcat 240  
cacctcgctc tcctctccca aaccggtcac cgcccaacca tccgttgcca g 291

<210> 1112

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554729H1

<400> 1112

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cagtaaaaat ggtgaccgtg gaggaatcc gcaacgtca gcgttcccat ggaccgcgca 180  
ccatcttggc ctteggcacc gccacgccgt ccaactgcgt ctcccaagcc gattaccctg 240  
actatacttc cgcattacca acagcgtaga catgactgat ctcaaagaaa agt 293

<210> 1113

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554730H1

<400> 1113

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cagtaaaaat ggtgaccgtg gaggaatcc gcaacgtca gcgttcccat ggaccgcgca 180  
ccatcttggc ctteggcacc gccacgccgt ccaactgcgt ctcccaagcc gattaccctg 240  
actactactt ccgcattacc aacagcgncc acatgatgat ctcaaagaaa gttc 294

<210> 1114  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554731H1  
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 ttttccacat tgtat 135

<210> 1115  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554732H1  
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 aagcttcttc ctatcgtcct tcagaggaga ttccaacctt gattaattcc agtgcaatta 180  
 aatctgtgag caagagtgtc aaaactgcac agatgacaat cttttatggg ggacaagttg 240  
 ttgtctttga tgattttcct gctgacaaaag caagtgagat catgtcctat gccacc 296

<210> 1116  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554733H1  
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 tctagcatta agcgcaacac tgctgttatt aagaaactga agcagattaa tgaagaacag 180  
 tgtgaagctc tgatggacga gttgcgaagt gtcaacttaa gcaaatttgt cagtgaagcc 240

gtggctgcta tatgtgatgc caagcttaga agttctgata tacaagctgc agttcaga 298

<210> 1117  
 <211> 53  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554734H1  
 <400> 1117

gctcccnac acacacaccc cttcatgnnt cncagcaccg acttccaccg nng 53

<210> 1118  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554735H1  
 <400> 1118

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cgccgcacct cgccccaaac taagcccaaa gctaagggtc gccgccacaa ccaccatcgt 120

ctgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtgtcc tccgacctga aggcttctcc 180

gccgcgctgg cctctctctc catctctctc tccgccccctc tccccgccgg cgccgacatc 240

tccgggctca ccccatgcaa ggagtcgaag cagttgcgca agtgag 286

<210> 1119  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554736H1  
 <400> 1119

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acattgctaa taccgagttg cctccaactc accctatcag gctgggtctt gctctgaact 120

tctccgtgtt ttactatgag attcttaact ctctgatcg ggcttgcagc cttgcaaaac 180

aggcttttga tgaggctatt gctgaattgg atacattggg agaggagtca tacaaggata 240

gcactttgat catgcaactg ctacgtgata acctcaccct ctggacctct g 291



cagcttctct ctgtaaaacta agctccagtt caaatatagt tgacatgaag atatctcgat 180  
 gtggttgctg gaaagttgga catggccaaa gatgtttccg attatatgcc ctatttggag 240  
 gaaaaaagga caataatggg aaaagtgatg atgttccttc taaggccgga 290

<210> 1123  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554740H1  
 <400> 1123

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 ctatttcaaa tataatgtta cgagcggttct aaatgatgct ggatatgttc cgtctaatac 120  
 tgaaaagtat ccccttggag gcatcatctc tgccattgag aatgcttttc acgcatctcc 180  
 tcaaatagtt tgctcgaaag attctgttga ggaacttcgc ctatgctttt ataaggactt 240  
 ccagccacga gattgtgctc ttggatctga cataanatca acaggtta 288

<210> 1124  
 <211> 106  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554741H1  
 <400> 1124

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 cnttttactt agtattccct gtttccggta ttnggctccc tttntt 106

<210> 1125  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554742H1  
 <400> 1125

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 aaaaccccat tctccatcgc ttcaccaccc ttcactgcnc tnttccacgc ntanntaggc 120

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121

<210> 1126  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554744H1

<400> 1126

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 tcacattacc aagaacttca tgaccctgcc caacatcaag gttccttca ttcttggtat 180  
 ctggggaggc aagggacaag gaaaatcttt ccaatgtgag cttgtctttg ccaagatggg 240  
 aatcaacccc atcatgatga gtgctggaga gttggaaagt ggaaatg 287

<210> 1127  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554745H1

<400> 1127

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 ctttaagagg acaggacgag atctaagagg ttcttggaat ttcancaatt gagggagcgt 180  
 aaganagagt atgacttgaa gacagcaata tctttgggta aagaaacagc taanaccaag 240  
 tttgtagaaa cagtagaagc ccntnccgcc tcaacttgac ctaaata 287

<210> 1128  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554746H1

<400> 1128

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actcgagtga tggggacttt tgggtatttg gctccagaat atgcttctag tggaaaactc 120  
acagacanat cagatgtttt ctctatgga atcatgctcc tgagttaata accggacgac 180  
ggccagttga taaaaatcaa acttacatgg aggatagttt ggtagactgg gctaggcctt 240  
tgctcacacg agctttggaa gaggatgatt ttgattctat tattgaccca 290

<210> 1129  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554747H1

<400> 1129

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cttgaatgtg gggagtggaa gcaggggtggc ctcaatcaca cgtgcagggg tcacagttag 180  
agcacagcaa caacaagtga atgggtggtga ggtacaaagt agccgtaggc agtgctttca 240  
ttgttgctgc tggtttgacc atgggtcttt gttcaagctg tgcttgctg 289

<210> 1130  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554748H1

<400> 1130

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gacttcaaac tcaacttcag ttcaagagaa agcaatgcc tccaaaaggg tctttctacg 180  
tctccgcacg gagcaccaag aaaatcctaa taatgggagg caccagggtt attggtgtgt 240  
ttttgtctag gtcctgtca aagaggggtca ccaggtgact ttattcacca aga 293

<210> 1131  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554749H1

<400> 1131

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gcgtttgagg ttctgcaaaa gctcgtgggt ttcgatctcg attacactct ctggcctttc 120  
tactgtgagt gtcgatcgaa ggcgagagatt ccttctctgt atccccacgc caaaggcata 180  
ttgttagctc tcaaagagaa aggcacgcac attgccatcg cttctcgctc gccaacggca 240  
gacatcgcaa ccgctttcct caacaaattg aacctcacc caatgttcgt ctc 293

<210> 1132

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554750H1

<400> 1132

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catatgatcc atggacgatt gttagtgtgt ctgatgactg tgaaagtact ggaggagggg 180  
gaacgttgca gatatggcgc atgagtgatt tgatctacag accagaagat gaggttttgg 240  
ccgagctgga gaaattcaaa tctcatgttg tggcgtgtgc ttcaaagact g 291

<210> 1133

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554752H1

<400> 1133

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ggttcgaggc cgaaccgggc ggctggcacc gggttactgga aggcaaccgg ggcggataag 180  
cccattggtc agccctaaccc gggtgggatt aaaaaagctt tgggtgttta cgcagggaaa 240  
gctcctaaag gggacaaaag cattggatca tgcacgagta tcgtctc 287

<210> 1134  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554753H1  
 <400> 1134

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 nnnnnnnnnn nnnnnnnnnn nnngaataaa cctcatccat actnaggaaa caaacgacag 180  
 agactgcaac catgtacggt gatcacgcgt ttctgatttc ggacgaggat gtcattgatgg 240  
 gaacctcgta caccgtcaac aacaaacccc ccatcaagga gatcgccc 288

<210> 1135  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554754H1  
 <400> 1135

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 ccogggcata ccacaaggta aaagggataa tttgtttcag tgtgagtcca tgtgggttac 120  
 tctctgtagg tgcattcttc taaatgtata agggaaaaag aatagtcttt gctgaggatt 180  
 tgggggcatt tgtaaaagct tatttgagct tatgaagatg acttatgtta taatctnttt 240  
 agcttatgan ataagctctt attgataaga gatattatta tag 283

<210> 1136  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554755H1  
 <400> 1136

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<400> 1139  
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<210> 1140  
 <211> 117  
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 <213> Glycine max  
 <223> Clone ID: 700554759H1

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<210> 1141  
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 <213> Glycine max  
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 ctagacagca accagctcgn cgaagcagat gaatttgagg acaaaatgaa ggaattggaa 180  
 agcatctgca atcctatcat tgccaagatg taccaaggtg gtgctggtcc tgacatgggt 240  
 ggtgctggtg ctggggcagc cgaggatgnt atgctgctcc tct 283

<210> 1142  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554761H1

<400> 1142  
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accatgattc gggacctata tttcatgatg gaacaaaaga atggagttgt tgcaagaaaa 180  
gaagtcatga ttttagcttg tttttggaaa ttccaggatg caagacagga aaacatacaa 240  
cagttaagca agttattaca ccagtgaaga agaacacca 279

<210> 1143  
<211> 96  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554762H1  
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cataatgngt agtgagaaaag agancgggga tgnngg 96

<210> 1144  
<211> 240  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554763H1  
<400> 1144

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tatcacaccc atcttcngt ttttactttt taggatttaa cgtcttgaca tgtataagtt 120  
gcgtcacgat tgacaaatgt gaatcaacaa agctatggtc cgcgaaacctg agactcaatg 180  
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<210> 1145  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554764H1  
<400> 1145

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tctcgggaga taagtatgtc acatttgatg gattagcaag agcatgtgct aaggctggtg 120  
ggttcccaga gccagagatc attcactaca accctaaaga ttttgatttt gggaaaaaga 180

aatcatttcc attccgtgac cagcatttct ttgcatcagt tgagaaagca aagagcgtgc 240  
 ttggattgga acctgaattt ggactttag aggggtctag agactcgtac a 291

<210> 1146  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554765H1

<400> 1146

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 ttattttctt ttggttcttt gttgttctc taatttatac ttccataaag cttttgtgga 180  
 catttctgac tttcgccagt aattggtgta aattaggatc caaaagcctt ggtcaagact 240  
 cattcatatt tgttcctaact gaggaaaact tgttgtcaca tcccagagaa agatgggt 298

<210> 1147  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554766H1

<400> 1147

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 caaggccagc tccatctgct tctagtctg cctccttcaa gactgtggct cttttctcca 180  
 aaaagaaggc tacaccaaca cctccaaaaa aannnnnnnn nnnnnnnnn nncaatgatg 240  
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<210> 1148  
 <211> 127  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554767H1

<400> 1148

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aagggtt 127

<210> 1149  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554768H1  
<400> 1149

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cagcagttcc tctttccagc tttgttgta ccaatgcctc ttcttctcgc ttttccatga 180  
gtgctgactg gatgcctggc cagcctagac cccctacct tgatggttca gcacctggtg 240  
actttggatt cgacctctt cgtcttggtg aagtaccaga gaatcttg 288

<210> 1150  
<211> 287  
<212> nucleic acid  
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<223> Clone ID: 700554769H1  
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tcaaggccaa aaacngtggc gttttacctc gccacgacc taaaccaag cctgaagctc 180  
ctgctgaaaa accacccaaa ttttacctg ctgatgatat caagaagccc cttgtcaaca 240  
agcaciaacc gaaaccagct aagcttcagg gctagcntac tcccggg 287

<210> 1151  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554770H1



<400> 1151  
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 caaggccaaa aacggtggcg ttttacctcg ccacgaccct aaacccaagc ctgaagctcc 180  
 tgctgaaaaa ccacccaaat tttaccctgc tgatgatatc aagaagcccc ttgtcaacaa 240  
 gcacaaaccg aaaccagctt aagctcaggg ctagcattac tcccggg 287

<210> 1152  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554771H1

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 ctctagggaa agaaggttac ttgaaaaata caaaaganat tatggaaggg tcaagaagaa 180  
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 <223> Clone ID: 700554773H1  
  
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 cctcactttc cgggaaaaaa acagaactcc aatcacacct cacaagctcc ctttttcagc 180  
 aaggcctacc accaccagag tgggtgttgg gaagtctcag gccacagcac ctgcttcttc 240  
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<210> 1155  
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 gcaatatatg cccttggaca gccaaagcaga agttccaaat catgtcaatg atcaaagagc 180  
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 ttctgtgcc attttgaact ctggatcatga acttaataga ctgt 284

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 <213> Glycine max  
  
 <223> Clone ID: 700554775H1  
  
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 atggagttaa gaacgtagag gtggacttga gcaatcaggt tgtgaggatt ctcggttcaa 180

cgccggtgaa gactatgact gaagcttggg gcagactggt agaaaagccc gggtattgga 240  
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<210> 1157  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554776H1  
  
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tgggggggcc gccgcggaga cgctggcgaa ggcggcgtgg agacgttctg atcgagcgan 240  
agatggacaa ctgcaagccg tgcgggtggcg ccata 275

<210> 1158  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554779H1  
  
<400> 1158

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ttctctcaga cttgtngtct attgagccaa tacatcaagg aaaagggtac ttcggagacc 180  
ttaccctcgg gatgattgca ctgccgaaac aaacgggttc ccctgagaca tcgtgtcatc 240  
tgcaacaaca tggagttggt tcccacgata atcagcaacg gaac 284

<210> 1159  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554781H1  
  
<400> 1159

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ttagaggagg aactcttccc atcaacccca ggaaagttca agatcgagcg gtcccaccac 180  
atgaaccgcc aactctatcg ctgtttcgcc tccaccagca ccatgttcct gtggggccctc 240  
ttcttaatcg ccctcacggt tcttatctca gttccaagg ctctgctga 289

<210> 1160  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554782H1  
<400> 1160

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cgtttaattc tctttcgacc cttgagcatt atttggagag tggaggagag gctgtgttat 180  
atgttggaga tctttcttat tctgatgaac atgactacaa agatatgggt ttacgggtggg 240  
atacatgggg ccgatttgct gaaaggagtg cagcatatca gccatgg 287

<210> 1161  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554783H1  
<400> 1161

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tgcaggatac gcgattgagc cagacactga ccaatgttgt aataccaacc ttcgacctta 120  
agaaacttca ccagttata ttctcaaact ttcagctgaa gacagttcct agctttgatg 180  
cgaantgtca gatatatgca ttgggacctc agcagcacca acttatcttc caccctatta 240  
ctttgagaat gatggcactg aattcaattt ggttgatggg ggcg 284

<210> 1162  
<211> 110

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554785H1

<400> 1162

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<210> 1163  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554786H1

<400> 1163

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tctgcgtttt nnnngattata ggttttttttg tcaatanagg gatcnngggg 110

<210> 1164  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554787H1

<400> 1164

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ttgtgctttt ttgcagtagc caccctcctc catggctcag cagcccaaac cagacacatg 180  
ctcgggtgatg ccacgggctg gatcatccct gctggcggcg ctgccaccta caccgcctgg 240  
gcttccaaca aaaccttcac cgtaaacgac actctc 276

<210> 1165  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554788H1

<400> 1165

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tgagatggng gcatcaagtg gtggggatcc aggagcacgc atngagaaaa tgtcaatgtt 180  
attgaagaag ataaaggatt tcgtgcaa atganaatcta gtcaaggatg ataatttagg 240  
aggaaaaggc ttttctcaaa agtctatgga cttgggacca atg 283

<210> 1166  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554789H1

<400> 1166

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caggcctcct ccggaagccc atggtacggc ccagaccgcg tcaagtactt gggcccattc 180  
tctggcgagc ccccgctcta cctcatggcg agttcccang tgatacggct gggacntgct 240  
gggtttcggc gaccagaaa ccttcgccag aaacgtg 277

<210> 1167  
<211> 93  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554791H1

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<210> 1168  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554792H1

<400> 1168

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<210> 1169  
 <211> 138  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554793H1  
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 agccgattng gacggcgg 138

<210> 1170  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554794H1  
 <400> 1170

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 accggcaaga ccatcaccct tgaggtggaa agctctgana ccatcgacaa cgtcaaggcc 120  
 aagatncagg acaaggaagg aatccccccg gaccagcaac gtctcatttt cgccggaaag 180  
 caacttgagg acggccgtac ccttgctgac tacaacnttc agaaggagag tatcttcacc 240  
 tcgtctctcg tctccgtggt ggnatgcaga tcttcgttaa gaccctca 288

<210> 1171  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554795H1  
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gcgaatcgaa tcctctttct gacgtcgatc atttcgtcga ctgagtcatt taaccctaaa 180  
cattttacat ggccatgac 199

<210> 1172  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554802H1

<400> 1172

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ggagnnccgt attagtttta gtgggcaggt gcaaaattac caaagcacag tgtctcaagt 120  
ggtaaattta ctgggaaatg aggactcagc tgaaattact tgagcaagtg catataactca 180  
attgggttgg gtagcaatga ttacctcaac aactatttca tgctcaatt ctattccagc 240  
agcaggcagt actcaccaga tgagtatgct ggatgttctt attc 284

<210> 1173  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554804H1

<400> 1173

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ccgatacgaa tgggtggcggg ggtggaggcg gagtggttcg ggtgataggg cactgncggc 180  
gcgcnctgaa gtttgctang ttcattgagca ngttcgggaa gagttaccga agcg 234

<210> 1174  
<211> 198  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554805H1

<400> 1174

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ctctgntttt tgggtacnaa cagagtttct cctgttttng acgatggcca taaaggcgat 120  
tgaactgttn aaaggggtgcg gatcanaaga aaaataatgg aagtgcttgc tgcgggtggct 180  
tcgganttgg gggatgtg 198

<210> 1175  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554806H1  
  
<400> 1175

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ncaccatata cactccatcg tttagtcctt ttngganacc agtctcagtt acttagagac 180  
accgtggacg aaaggaaaagc gttctaagcg tagccgcacg gagcaacaac tgcaacaccc 240  
ttcatncacc gaggaagagt acctcgctct ttgtntcatc atgctcg 287

<210> 1176  
<211> 69  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554807H1  
  
<400> 1176

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cttcnaagt 69

<210> 1177  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554808H1  
  
<400> 1177

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accagttga agaaatccca accgcaggag gagatgctcc cgttgctcag gacgtgaggg 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacaaggaag 240  
 acgatgctct aggtggtgct gagggttcan agcagagcag aatg 284

<210> 1178  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554809H1  
 <400> 1178

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 ttgcagatct gaattancct ctggtgatgt atattgtccc atattgggtc gtgtatgagt 180  
 tcttgatttg tagatcagtc ataccgtgac agagagattg gtggtgcgaa ctgggacaac 240  
 cantaacaga gcagtantct tgcgatgggt ataaacgang cagagtacgt c 291

<210> 1179  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554810H1  
 <400> 1179

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 gtgaggacag cggaggaggg atatttgagt atctggctgg gtttatcact tgggagtaaa 180  
 ttccattggc catgagtact gtcactccg attcctcttc ataggggaaa gtatgttctc 240  
 catgtacaag cgtgatcctc acgataaccc tggcctcaaa cctatt 286

<210> 1180  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554811H1

<400> 1180  
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 nnnnnnnnnn nnnnnnnnnn nnnngaacaa ctcattccata ctaaggaaac aaacgacaga 180  
 gactgcaacc atgtacgttg atcacgcgtt ttcgatttcg gacgaggatg tcatgatggg 240  
 aacctcgtag accgtcaaca acaaaccccc catcaaggag atcgcc 286

<210> 1181  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554812H1

<400> 1181  
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 gccggagcaa gatgctaata acgacttgga cgcgtagaga caacacgttt cgcaggtaca 180  
 cgtccaacgt taccaagggg agtggcaaag gaacanccat tgtttggttc angnagatct 240  
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<210> 1182  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554813H1

<400> 1182  
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 tgggtagcaa actgttgaat tgcgcgcta aagtgtcgga tccaccagaa cccagcatat 180  
 cagttaaagg aatatgaaat gcttctgaca gaatggaaac ttgggtagca aactgttgaa 240  
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<210> 1183  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554814H1

<400> 1183

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aggctgtgaa tcacagattc agatctgaag attggttaat gctggtggca ttcacagaac 180  
aatggtgttt gccaacactg ttgaggctgt tgaagctgtg gcaaagatat tactccgac 240  
tgaggattgaa tgttctcggt atcataagaa tgcacattgg aagagcg 287

<210> 1184  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554816H1

<400> 1184

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ttttcttcaa gaccagaaaa gggtttcagc cgtngtgcac aaaggggatt cccttacaan 180  
naaacaccat caatggtttg aattcgaaga acagaaactc actttcgagc ttgcgattcg 240  
gtaaaaaagc cgaagacagc tttttctcgg atgtaatgga gacaccgatg a 291

<210> 1185  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554818H1

<400> 1185

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ataaggaaca acctacagtg attgatgaat tgttcagaag ataaaaaaaa tcgtgggttg 180

caaattttct attcttcgaa atgataatct agttgggatg gaatctcatt ttctacatta 240  
tcaaagcagc tggggccggt taatgatgtt cgagttgttg g 281

<210> 1186  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554820H1  
  
<400> 1186

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tcaccatagc actttgattt ttctccgaa acaacacaag cagcacctta gaatccacag 120  
gtttcgatgc agtggaaacta atccgaacaa gagtcggaat cacagaacaa tgcaattctc 180  
aagcttgcag ggtatagtgc cgagcttctt ggcatgtcag cgtccgtttt ccgttcacca 240  
tctaattgag aagttcctcc tcagaggctt cttcagacca tt 282

<210> 1187  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554821H1  
  
<400> 1187

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tgagatcgt ctcaccagag ccgccaaggg ttggaacaac ttagtggcca aaccccagtg 180  
ttttccaaag caaggtacac tgttcgttcc tttgggatta gaagaatgag aagattgcat 240  
gctatgtcat gtcagaggtg acaaggcang caatttttg 279

<210> 1188  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554822H1  
  
<400> 1188

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ccagggttgt tttttcaaca tgcaggtcat agggatnaag ttgttgactt ccattggaat 120  
gcatatgatc catggacgat tgtagtggtg nctgatgact gtganagtac tggaggaggg 180  
ggaacgttgc agatatggcg catgagtgat ttgatctaca gaccagaaga tgaggttttg 240  
gccgagctgg agaaatcaaa tctcatgttg tggcgtgtgc tt 282

<210> 1189  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554823H1

<400> 1189

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ttctgggagg tggtttgctg ggagcacgga tgcacctac cggaaggtac ggtggggact 180  
cggagttgca gctcgagagg atcaatgtct actacaacga ggccagttgc ggtcggttcg 240  
tgccgcgcgc ggttctcatg gacctgaac cgggcaccat gg 282

<210> 1190  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554824H1

<400> 1190

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caaggctatn gagaacatga gaaatctgat gatgttttgc tcaacaacaa caatctttct 180  
ggtcacattc ctaatggttt ggcacatgtc gctacactct cagcattcaa tgtgtctttc 240  
aacaacttat ctggatcctt gccttcaaat agtggcctga tta 283

<210> 1191  
<211> 288

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554825H1  
  
 <400> 1191  
  
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 aagatgatag aggaaagggt gaagattagc ctttgccctgc accatctgct cagctgactg 180  
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 <213> Glycine max  
  
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 aggagaagaa acctaaggct ccaaggaaaa gaagccgaaa caggccaaaa ctgcttctca 180  
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277

<210> 1194  
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<223> Clone ID: 700554830H1  
  
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attcaccctc ggttacaaga ccgtttctcaa attcttagga actccaaagg aaaattgatt 180  
atcattgcta acaactgccc ccctttgaga aagtcagaga ttgaatacta tgctatgttg 240  
gcaaagggtg gagttcatca ttacaatggg aacaatgtgg atttgggc 288

<210> 1195  
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<213> Glycine max  
  
<223> Clone ID: 700554831H1  
  
<400> 1195

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ctatatgtgt acaaggacag gaatgtggtt ntcagcttgt gagaagagct gaaagggctg 180  
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<210> 1196  
<211> 276  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700554835H1  
  
<400> 1196

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cccaatnagg cttttgttcg ggctgctaga attgagtcca aaggtgttac cttgggtttc 240  
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<210> 1197  
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<212> nucleic acid  
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<223> Clone ID: 700554836H1

<400> 1197

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ttctacgcca aaaacaatac cttttcttct caattcccac caagcccctc aacctccatc 180  
ttccatgtct caactcttcg ctctttcccc tcaccaccaa aacaacgcgc cactcttctc 240  
tcctcacatt cgtggctcag acatcggatt gggccaaaga a 281

<210> 1198  
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<212> nucleic acid  
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<223> Clone ID: 700554837H1

<400> 1198

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cacgcacgcc ctgcgggcac caccctcgag gaaacaattt ctgctgtcct cgcggtcggg 180  
cacggcggct cccaccgtca tccacgcgcg tgcacgaca ctactcatgg accgcctcca 240  
cacnacgcgc atgacaccgt ggcaactcaa tgccctctaca 280

<210> 1199  
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<223> Clone ID: 700554838H1

<400> 1199

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 cgatgctgat cgaatcgatt ccatcggngt tatcggaaga gaaggcaaag acggcttgct 180  
 ctggttccgc gacttcggaa aatatggctc cggtgatttc tccatggctg tcgttcaggc 240  
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<210> 1200

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554839H1

<400> 1200

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 taggtatcca tgaggattca cagaacaagg aaagattgct gaattgctca ggtaccactc 180  
 caccaagagt ggtgatgaaa tgacaagcct caaggattat gtgaccagga tgaaggaagg 240  
 tcagagtgc atctactaca tcacaggtga aagcaagaag gc 282

<210> 1201

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554840H1

<400> 1201

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 ctggagctgg agcttcagct cccagttcgc cttctttggg accagcttga agaaggttat 180  
 tgcctcaagg gtccccaaca gcaaggtttc cgggtggaagc ttcaagattg ttgctgtaga 240  
 agagaagaaa gagattgaag agaccagca gaccgacaag g 281

<210> 1202  
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 ngagatttgg acttgtagac tcgcaattgg aattgaaaat gtncaagaaa gtagtcccca 180  
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<210> 1203  
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 <212> nucleic acid  
 <213> Glycine max  
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 ttcctagtgt ccagccattc catgcaatgc atatccactt gacccaatgc ttgctctgga 180  
 aattagccgt aaatatgctg cacactgctc ggtaattgca tctcggtttt ctctcctcca 240  
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<210> 1204  
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 <213> Glycine max  
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tgcanccagt ataatgtatt ggagccgcaa caacagactg aggacatgga ttcattccct 180  
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<210> 1205  
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 <223> Clone ID: 700554844H1  
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 gagaggnc 128

<210> 1206  
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 <212> nucleic acid  
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 <223> Clone ID: 700554845H1  
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 agattccoga gaaagacgct tcctcggaca cgccgcggca aaatcccggg acgcgaatgc 180  
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 gaagaaagaa gagatc 256

<210> 1207  
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 <223> Clone ID: 700554846H1  
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aagcaatatc atttacacat gccaatgttc tatggctcat gggctgaagc tagagcaaga 180  
agaaaacaaa ggaaacttgt cgcatacgct gagtctttgt acccaagtca catggaatct 240  
gcaaggatat tgagtgataa taataattcg gccttcgaca actc 284

<210> 1208  
<211> 274  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554847H1  
<400> 1208

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tattgaacag tggcaaactt atgcactatt gtcacagggt aaagagtatg tatttgttgc 180  
caattcagat aacttgggag ctatagttga cttgaaaatc ttaaattcatt gatccagaac 240  
aagaatgaat actgtatgga ggtgactccc aaaa 274

<210> 1209  
<211> 264  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700554848H1  
<400> 1209

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acttcagatc actttgacag gttgacttgt ccggcaccaa cttctggtat tactattgtc 180  
tgagttctca ggagttcttt cacagaagggt agatgggttc tagaatccca tctcataagc 240  
ttagcaatgg cctctacgta tcag 264

<210> 1210  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554849H1

<400> 1210

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 tggacctggg gtttcagctc ccagtcaccc ttctttggga gcagcttgaa gaagggttatt 180  
 ggctcaaggg tccccaacac aaagatttcc tctggaagct tcaagattgt tgctgtagaa 240  
 gagaagaaag agattgaaga gaccagcag accgac 276

<210> 1211  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700554850H1

<400> 1211

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 acaactgagg tggcactttt ccttgccctcc aacctctttc acttgcaggc ctcataatca 180  
 gcaccatcct aaacagtttc tatgtcctca ccataagctt cattggaaga atcttaggtg 240  
 gtgcaaactt caacccttca acaagtcttt cattcta 277

<210> 1212  
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 <212> nucleic acid  
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<223> Clone ID: 700554851H1

<400> 1212

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 tatggtgccc gtactccgga ggtaaatgcy caagttggag gcttgctgtg gaagcacaca 180  
 acatcttttg ctttgagacc attcctgaag agtgcggtga agcaacaaag gaatacatcc 240  
 atggcgaaca atatagatca gactccaaaa cagtt 275

<210> 1213  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700554852H1  
  
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 aatataagga tgagcttgcc aaggggtgtgt ggggatactg ggagctgggg gcatggaagc 240  
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<210> 1214  
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 <223> Clone ID: 700554854H1  
  
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<210> 1215  
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 <223> Clone ID: 700554855H1  
  
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<210> 1216  
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 <212> nucleic acid  
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<223> Clone ID: 700554856H1

<400> 1216

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aataaacata aata 134

<210> 1217  
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<212> nucleic acid  
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<223> Clone ID: 700554857H1

<400> 1217

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gagtgtgcag agaaccatca aggctgcaga gaaatctcat gtacctagct gcaatagctg 180  
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<210> 1218  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554858H1

<400> 1218

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ggcctaattg atgacccaaa agcaggttac caatcagcat ttggtggctg cttcctcagt 180  
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accaaagccc tgaggcactt aggagtttgg gggctgca 278

<210> 1219  
<211> 279



<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554860H1

<400> 1219

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tagttatacc cttggatcag tgcattgatg agattgagaa cagggtattt tgtaagcaca 180  
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<210> 1220  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700554861H1

<400> 1220

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caatgcgcgt ggccgttcca ccaacccatt tacgggtccc ag 282

<210> 1221  
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<223> Clone ID: 700554862H1

<400> 1221

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attgcatgca gaaactatgt gcagaaaaat atctcctgat ttagtagaga agggccaaaa 180  
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282

<210> 1222  
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<212> nucleic acid  
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<223> Clone ID: 700554864H1

<400> 1222

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aggctcttcg tttgcatgat gaaatgggtgc agagggggtt tttgcctgat aatgttacct 180  
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<210> 1223  
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<212> nucleic acid  
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<223> Clone ID: 700554866H1

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atggcatgat gggatttgca gagcacagaa ga 272

<210> 1224  
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<212> nucleic acid  
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<223> Clone ID: 700554867H1

<400> 1224

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 gggttccttct ctgcaaagga taccatgatc ctccctccagc accgttgatt gatgctgagg 180  
 aactcacaca gtggtccttc tacagggcctt tgattgctga gttcatgcca caatgctctt 240  
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<210> 1225  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554871H1  
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 accttgaaac tgaaactccc gattcaaagc cccagatgct gtccctcctt ggagggatag 180  
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 atttcaacct cacccttccc ataataatgg tggagtt 277

<210> 1226  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700554872H1  
 <400> 1226

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<210> 1227  
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<223> Clone ID: 700554873H1

<400> 1227

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tggttagtagaa ctnnnatttn cctttntgct tgaataatga gatcatacca tatccaatct 180  
cattattcaa gcaccanaga aaatgagatt ggatatggta tgatctgtgc ttagaaatta 240  
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<210> 1228

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554875H1

<400> 1228

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ggatatctta acaatgccaa tgggtgttgc atatgtctgc aatgtggctt tccccacaac 180  
tttgcttggg tggaatagct gaagcattca atgcaatagg ccaaaatgag ttctattaca 240  
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<210> 1229

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554876H1

<400> 1229

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catcagagga ctacatgttc cccatttcaa agggggccat gccctcacct tcagaggatt 180  
gcacgtcctt gccatcatag gactacacgc cctcgccatc agaggactgc atgtcctcac 240  
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<210>      1230
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<212>      nucleic acid
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<223>      Clone ID: 700554878H1

<400>      1230

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tcgctaagag tggcctccaa atcacaataa aggtttcaaa gacaaagaat acttcactcg   180
tgaccagatg tgaaattggt gacagtctcg aagaattcct cacaaaagca acaccagatn   240
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<213>      Glycine max

<223>      Clone ID: 700554879H1

<400>      1231

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attgcctact gggatctgtg atattgtctc actaaagaag ctcaagtatta ctaattgtca   240
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<212>      nucleic acid
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<223>      Clone ID: 700554880H1

<400>      1232

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aagtctgagt ggggtgaagga caaacacttc gccaaccttc tgctgcatca gttgtgagat  180
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<210>      1234
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<223>      Clone ID: 700554882H1

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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700554883H1

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<210> 1236  
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 <223> Clone ID: 700554884H1  
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 <213> Glycine max  
 <223> Clone ID: 700554887H1

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ccagacatga acttgagaaa tgaaaaatgt caaggcagaa ttgcttgatc tgttgaacat 180  
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<223> Clone ID: 700554890H1

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tctcaactct cattcaacct attccacat caacttcttc nttttctttc accccgtaca 180  
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<210> 1241  
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 <223> Clone ID: 700554891H1  
  
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 aacatattgc cctgggagta tcctagtcct ccccagaat attcaacctg cttgggtgat 180  
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<210> 1242  
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gctaatactg aagaggaaaa tgatgatgtc tatggtgact ttgaagattt ggaaacagga 240  
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cactgtctca gaccaaggag agaacagcac agcctcttag aaaagcttca ccgatctgac 240  
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cccaccgcat cgctgttcca ccggcgggggt tttcccgag aagaacctct gggacacaca 240  
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<400> 1251

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tcattcctta ctgggacact gaaaagggtca ctccgaagtg ataaaaaaat tcaagaaaaa 180  
atacgaaccc accgcactga gggttaagggt tcttgtcagc attggaaaca aaaacaaaca 240

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 cacaanatcc gagcnttaaa accattcctg aagagtgcgt tgaaccaaca aaggactana 240  
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 agcttgctat gtatcattga ataattctac tggaacatcc atctcaaaga caggaacatt 180  
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 gtgcttacag tccattgtga gtatccagtc acaggtctgt gcaaggaggc tccaaatggt 240  
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 ctcccttcac aaaacccaac ttcatgcact cttcacgctc ctcaaccacc caaattcagt 180  
 gtggtctgag agaactcaga acccgcatg attccgtgaa gaacactcag aaaatcaccg 240  
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<212> nucleic acid

<213> Glycine max

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<211> 290

<212> nucleic acid

<213> Glycine max

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ggatcagcta gctataggaa aggaaacagg ngtcgcttgg gaatgggtac caacatgtat 180  
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<223> Clone ID: 700554927H1

<400> 1268

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gaagctcctc aaggaaggtc aaggctgcnn nccccgaag tcggtgacga agtccaagtt 180  
cattacacgg ngactttgct cgacgggact aagttcgatt cgagccgcga cagggattct 240  
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<223> Clone ID: 700554928H1

<400> 1269

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atactgataa cgctgaaaaa aaaaaaatga attggcttta atangttatt cccaacaatc 180  
ggnttttcgg cgagacataa tcaaaggntc tatangtgct caaaggngta aaacagttac 240  
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<223> Clone ID: 700554929H1

<400> 1270

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tgaatgtgta agaagggtta aagcaatggt gaaatgaact ggaaacaatt ttcagctaag 180  
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282

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 <223> Clone ID: 700554930H1  
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 ctacctctca ctgatgaaga atacatccac atgccatttc tgaaggaaaa aggttccgag 180  
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 <223> Clone ID: 700554932H1  
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 aagatgtgca gagatctgag gcacaagggtg cgnanatatt ggaggtggag gtggatccga 180  
 agggaggacc gatgattcaa gaggcggcga tgaagctcta cgtttcgaag agcgagtctg 240  
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 <223> Clone ID: 700554933H1  
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 gttcccttcc ttactacct tcccggaatt ttcgcattct ttgcggcttt gatgttcaat 240  
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 tctcagactt gtagtctatt gagccaatag tcaaggaaaa gggtagcttc ggagacctta 180  
 ccctcgggat gacttgcaact gccgaaacaa acggttcccc tgagacatcg tgtcantctg 240  
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 nttcccagcc acttcgacgc tttcncagat ctggtgcacg cnccgctggt cgcttaccgg 240  
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<223> Clone ID: 700554939H1

<400> 1276

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tccttctctg ggaaggacta ccaggacctc caccagcacc actcattgat gctgaggagc 180  
tcacaaagtg gtccttttac agggctctca ttgctgaatt cattgccact ttgctcttcc 240  
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<210> 1277

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554940H1

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ttgctancgc tgtggactct gcgatttcnc cccattgggt ccccgccct gtgagaagga 180  
cgcaaagnen ttgcggttca tcgaagaaat gactcgcaac gccgacgccg tccaggagag 240  
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<210> 1278

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554941H1

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aaacatttcn tcacgtaccg aagcattatt caaagaaagc catgactgat atggacagta 180  
ccaatatcta tgcctacatt tccatcattg ctctaattgt gtgtatacca cctgccgtaa 240  
ttttggaagg gccacactg ttgaagcacg gcttcaatga tg 282

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154

<210> 1282

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agggtcagca tgaggaagac cgtcaccaan aggcctctc cggaagccca tggtagggcc 180

cagaccgct caagtacttg ggccattct ctggcgagcc cccgtcctac ctactggcg 240

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<223> Clone ID: 700554949H1

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cacttcccag ccacttnnnn nctttncag atctggtgca cgcgccgtcg ttcgcttacc 240

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 cttctccaac aanagttnngc tctancancc tggcctcctt gctcctcctc agattgaanc 240  
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<210> 1287  
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<223> Clone ID: 700554954H1

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 agtgagagca tacctgtcgg gaccgaaaga tgggtgaacta tgcctgagcg gggcgaaacag 180  
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ccttaatctt ctttcttcac aattttattt ccttccttat tagacgtatt agatcagatt 180
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attcaattgt ggtcctgtcg gtgcccattc cagacgacga tgtcatcttt atatagaggg 180

gaatccaggn nttncnaaca ataaaccaag aggacgtcat aatttgacaa cgcagaagaa 240

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<223> Clone ID: 700554969H1

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<213> Glycine max

<223> Clone ID: 700554970H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554972H1

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tctcttccctt atctctccca agttaaaactt aataaaggcc tcttcagcag ctaanaccac 180  
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 ttcactgggtt aatggattgg aacctgatac tattgatgaa gctctcagat atggaagggg 240  
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<210> 1308  
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 <223> Clone ID: 700554984H1

<400> 1309

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acaaatccca gtttcaaaan tctgatttct tggatcacat gacttgttct attcaagaat 180  
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<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554985H1

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gaccatttgc gctatattta cgactgtgtc aaattccccc ataaaaccgg tattgattct 180  
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<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700554986H1

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tanaanaana acaaccantc ttcccacagc tgaganactn aatgagaaat ttggcagaaa 240  
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 <212> nucleic acid  
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 <223> Clone ID: 700554988H1  
  
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 gaccatttgc gctatatatta cgactgtgtc aaattccccc ataaaaccgg tattgattct 180  
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<210> 1314  
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 ttgccacttc acttctgttt cagcatttga atcgtggctt gttgctgagc acttcaagag 180  
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272

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<223> Clone ID: 700554991H1

<400> 1315

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accgatgatt tcgttcgttc tgtgccaaga aagtaatata ccatgaattg ctccagcatt 180  
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<210> 1316  
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<223> Clone ID: 700554992H1

<400> 1316

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ggangangat ttgatcanaa aagtgacgaa tggttggaat ccagtttctt cttctacgac 240  
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<210> 1317  
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<223> Clone ID: 700554993H1

<400> 1317

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<223> Clone ID: 700554994H1

<400> 1318

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 aaattcagag tttcaactgt cctggtgctc atgttggttt cattaganag actgtagaat 180  
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<210> 1319  
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<223> Clone ID: 700554995H1

<400> 1319

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<210> 1320  
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tccgtgctaa ataatatatg cagtgatgtt agaaacactg tgtttattgt tagtggcagg 240  
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<210> 1321

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555001H1

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cc 302

<210> 1322

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555002H1

<400> 1322

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tccccaacac ggtggcgga ggcgcaggt ccagcaaggc accggaaaaa tccacttttt 240

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<223> Clone ID: 700555003H1

<400> 1323

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<210> 1324  
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<212> nucleic acid  
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<223> Clone ID: 700555004H1

<400> 1324

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attataacta tntgtgaant gtnacataat caanaccnta tttgttgtga ttgatatcgt 180

gcaatatncn cgtnattacc ataatatata gagtcatatg atgtggtaaa ttgttgacac 240

ccttcaggtt antctatctt aaagntacat ttcttaaaat tctaacttag catg 294

<210> 1325  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555005H1

<400> 1325

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tgagaattta accaaagttc tctcattcac tgcattgactt ggtgctaata gcaaataggc 180

accacccctc agtgtttctg gtgttggtta ctgttntact ttctatccat tgctctgagc 240

aattgcaatc ctctcactct cagactcttc tcagaattca gcagctattg aactt 295

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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555006H1

<400> 1326

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tagaaagatg tgtgaaagta gtagtagcag agtcacatgg gaagggttgca gcgtcttgct 240  
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<223> Clone ID: 700555007H1

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<223> Clone ID: 700555008H1

<400> 1328

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<223> Clone ID: 700555011H1

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<212> nucleic acid

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<211> 287

<212> nucleic acid

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 ccactgatga agaattgggtg aatcactact tgtgtaggaa gtgcgctggt caaccaatcg 180  
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 <212> nucleic acid  
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 tctgtttctc tcaactcact ctggtcggcc acggccaggc agaggctctc ctctcacaga 180  
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<210> 1348  
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 cgatcagttg atataatttc ccattgcctt gatgcaggaa tgtctgtggc aaggtttgac 180  
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<210> 1349  
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 <213> Glycine max  
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 actacacccc agatccacat gctggaagtc cccccacagg tttctccgat tctctgtgct 180  
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 gtccaagtac tccatcaaca cctcaggtg gaaactgtgg atc 283

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 <212> nucleic acid  
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ccagatgatg cagaacctct tcggagacca atccgaggag gaggaagagc tcgacgttga 180  
ttctgagcac gaatcaaacc cgcaactcaa ttaccctcc gacgaggggg aggggggtggg 240  
ggagcaggag ggcgaggtgg agggccaggg cgaggtggag atc 283

<210> 1351  
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<213> Glycine max  
<223> Clone ID: 700555033H1  
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aagaaacatg tagtgcncaa aaacccaaaag ggaccanagg angaggnact tcangttgga 180  
ataataatga gagngaagan aagggtacgt ncttgagttg gaatgatnta aggggtgactg 240  
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<210> 1352  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555034H1  
<400> 1352

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tctttattgt ggaaacaaaa taagaaagtt tcaccacaaa gttctgctaa atttagagtg 180  
atggcaatta agtctgacaa tagcatcatc aacaggctag aggggtctact taatttggat 240  
atcactccat tcacggacaa gataattgct gagtacattt ggattgggg 289

<210> 1353  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555035H1

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 ttcatcctt actgggacac tgaaaaggta actcccgaag tgataaaaaa attcaagaaa 180  
 aaatncgaac ccaccgcact gaggggtaag gttcttgtca gcattggaaa caaaaacaaa 240  
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<210> 1354

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555036H1

<400> 1354

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 ctttgtgata ttcttcggtt caaagattta atgggggttat ctgagaattt aattgatggg 180  
 ttttgttttg ttgattgagt tttattgctt taccggcagt tattccttga ataaaagaag 240  
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<210> 1355

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555037H1

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 tacgaccoga actttgtccc cgactcggtt naatctttng tggtncacct gtaccgtcac 180  
 atccgtgaaa agaacgtgta cgagatccac cagatgtacg agagctcctt ccagaccctc 240  
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<210> 1356  
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 <212> nucleic acid  
 <213> Glycine max  
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 ttttcaaggg ctggattgat aatcaatcac tggctgctgc caaacctggc actggcggtg 180  
 ttgttgcagt gaaaagactt agtctggata gcttccaagg tcagaaggat tggttggatg 240  
 aagtaaacta tctaggccag ctttctcatc ctcacttagt gaaatta 287

<210> 1357  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555040H1  
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 tacaacaaca acctctcctt ttcaaagcta cgcaattcaa ttcactctgc ggcgggtgcca 180  
 ttnccgccgt taaccaaagc ctctgcgggg aacggcgggc ccaccgacga gggagtgtct 240  
 ttagggacga tgaagcttcc tttggacact gacctccaga gattcg 286

<210> 1358  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555041H1  
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 nganatatgt ttatggttat ggattcagca ganagggtgct tagattctca actatggcat 180  
 gcctgtgccg gtgccatggt tcagatgcca cccctcaaca caaaagtctt cgnctttccc 240  
 cagggcnacg ctgaacacgc tcatgggaag g 271

<210> 1362  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555046H1

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 tcacggtggc aagtttagaca acccagatca ttgtatttat ttttaattaa tttcatgtgt 120  
 atacaaatgc attgtgattg g 141

<210> 1363  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555047H1

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 gatgatgact cataaatcac aatcatgatg agtagttgaa atcgaaaaga gaaaaaaagt 120  
 tennnnnnnn nnnnnnnnnn nnnnncgcta taccagcagc agcattttct tttccatttc 180  
 caacatcaac agcgagagaa aggatcatcg atcatcatgt cgttttcggt tttcaaggct 240  
 ttgaggccta aaacgccgca agagggtggc aagtccatc 279

<210> 1364  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555048H1

<400> 1364

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agcatcaagt gcgttcgtgt tggcgggtgtg gagattccga acaacaagcg aatcgagtac 180  
tcgctgcagt acattcatgg agttggaagg accagagcga aacagattct ctgtgatatc 240  
caaatggata ataaaatcac gaaggaactc actgaggag 279

<210> 1365

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555050H1

<400> 1365

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agttttttcc attgaaggcg aaagtgcctt gtcagttgtt ggtccaaggc caatggaatg 180  
gtctactgtt ccatacaatg cccctcaagc tcctgggcca aatggaaagc agcggacctc 240  
aagtttgga taccgatca tgttgctgtc aggtcaccag agtgc 285

<210> 1366

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555052H1

<400> 1366

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aattttctag gcttgactat cagaccaggc aatttttaag aggtgcatca gccttttaggc 180  
gtcttggtgc caagctacca ccaagagctc attctgtgta ctacagggat gaaattggca 240  
acatttccac ttctagtta tggggtgact caaaaaaaga cagaac 286

<210> 1367  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555053H1  
  
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 tcagccttcc catctctcct ttcttcctca aaatccagat ttgccaccgc agttcctctt 120  
 tctagctttg gtgtcaccaa tgcctcttct tctcgctttt ctattagtgc tgactggatg 180  
 ccaggccagc ctagacctcc ttaccttgat gggttcagcac ctggtgactt tggattcgac 240  
 cctcttcgtc ttggtgaagt accagagaat cttgagaggt tcaaa 285

<210> 1368  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555054H1  
  
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 actatgtgtc tttgacacta aacaagtgtc atcaagtggc aggagaaggc atgtgggggg 180  
 ttctggagtt aggtgcatgg ctgtggggga agcagcaacc actgggacaa agaagagaag 240  
 tggatatgag cttcaaacac tcactagctg gttgctgaag cagg 284

<210> 1369  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555055H1  
  
 <400> 1369  
  
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 aagatgattc taggttcgag acttgcggtt gttttgtaga atgattgntt gtattgctaa 120

ttattaatatt aataaagatc tgaaaatttc atcacctttc acttttccag gcttctttat 180  
 ttgctagatt aatttactgg catatgttat tttaatgtgg atagagagat atggagttta 240  
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<210> 1370  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555056H1  
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 gcaatatatg cccttggaca gccaaagcaga agttccaaat catgtcaatg atcaaagagc 180  
 atgaaggcaa aaatggggcca atcccttggga atttcacggc aggcagcatg ggtgtgactt 240  
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<210> 1371  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555057H1  
 <400> 1371

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 tttagggggtt ttctcactcc tcccttttgt gggttatgggg tttttgtcaa ttccagacct 180  
 aaagccttca agatggactg tgacaaatct gaatgatgtt aactggaatt tgtatctgaa 240  
 tactctatatt tggaatctca actattggga ctccataa 278

<210> 1372  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555058H1



<400> 1372

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agagtcggtg aacgaggag accctgacaa gctctgcgac caaatctccg atgctgtcct 180  
cgacgcttgc ctcgagcagg acccagacag caaagttgcc tgcgaaacat gcaccanaac 240  
caacttggtc atggtcttcg gagaaatcac gaccaagg 278

<210> 1373

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555059H1

<400> 1373

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caagatttct aaactaacgg tgagagcgca gagaagggca cccattgaag ggctgagcga 180  
tgagttgaac gctatagctc gttgtaacct tgactttgct tacactcgaa gaaggggtccg 240  
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<210> 1374

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555060H1

<400> 1374

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ctttagaggc tgctaaacag gctggaaagg ttccagatgt ttactactgc ctcaagcttt 180  
tggaagccac tggcatatcc actgttcctg gttcaggatt tggtcagaaa gaaggggtgt 240  
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 aaggaaacaa cgatgttctg ttttattgct attacatttg cggttgttag ggccatgttg 180  
 atggaacacc gccgaattat gtatctttat cacagtcgtg cttttcggaa aggaaaagga 240  
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<210> 1376  
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 <223> Clone ID: 700555062H1  
  
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 tcatggcttg ttacattcag aatcttctac agtagataat ggaaaagctc ctagtatggt 180  
 tgctagcacc caaaagttc caaatcccc ttggatgcct tttcctttgc ttcttgatgc 240  
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<210> 1377  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555063H1  
  
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 gcggcggagg agaggcgcgg aacggtggtc ttcagggttt tctgacgtct ctgttctcga 180

ccctcggcgg tggtttcggg tcaacgtttc aagaaccgca tcaaagtgtt atcatggctt 240  
ccgattgga acaacagcaa caaccacca atgttg 276

<210> 1378  
<211> 248  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555064H1

<400> 1378

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gaggccaggc agaaaagact tggattccta caccatcaga ggcaccaaca agatcgtaag 180  
agctggggac tgtgtgctga tgcgcccctc tgatacgagc aagccaccgt acgtggcgcg 240  
cgtggaga 248

<210> 1379  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555065H1

<400> 1379

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agctcgtaga gatagaatct ttgattcagc ttttctctcc tttgtctctc ggcttccacg 180  
tgattcagcg gcnccctctc tgccgttggc cggttttcgc cccctcttcc gaggccgttt 240  
ctccggctcc atcactctgc tgtctgcctg tttcaccatg gaag 284

<210> 1380  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555068H1

<400> 1380

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 ccccagaagt gggaaggggtg agcatgagga agaccgtcac caagcaggtc tcctcaggaa 180  
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<210> 1381  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555070H1

<400> 1381

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 cactgcaaga ggcgtgcac cacaggggta agcatgttga agaagcaggc ttagttcctg 180  
 ggttcaaaga ggagtttttg atcattgggtg agaactcaat agatgatagc ttggtcttga 240  
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<210> 1382  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555071H1

<400> 1382

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 tcaccatgcc accnaagcct ttagactatg ggtcaataaa tgaaaacgtg aagaagagtc 180  
 aatatgctgt cagaggtgaa ttataccttc gagcttctga gcttcagaaa gagggcaaaa 240  
 agattatatt tactaatgtt ggcaaccac atgcattggg a 281

<210> 1383  
 <211> 282

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555072H1  
 <400> 1383  
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 ggaggtcggc ccaaaagtaa ttactggaat gaagttgaaa aaataggtga catgtggaag 180  
 tgcaaccatt gtgaagggga gttccatgga ggtgctacaa gaattaaaga gcatatcatt 240  
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<210> 1384  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555073H1  
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 cagttatagg aattatagta gttcgatata ttttctgcc aattttgggt attctagtta 180  
 ttaaaggagc aacacaattg gggttggtgc aaccagatcc cttgtatcag tttgtgcttc 240  
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<210> 1385  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555074H1  
 <400> 1385  
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 tttgtaattt tactgaaggt gccatgtatt cattccctca aatacgcttg ccgccaagag 120  
 ctttagaggc tgctaaacag gctggaaagg ttccagatgt ttactactgc ctcaagcttt 180  
 tggagccac tggcatatcc actgttcctg gttcaggatt tggtcagaaa gaaggggtgt 240

tccatttgag gacaactatt ttaccagctg aggaa

275

<210> 1386

<211> 253

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555075H1

<400> 1386

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caaactgctc tgaagcagct caatgagttc gtccgcaaga ccggtggcgc cggcaaaggt 120  
cgcactaaca tgcgccgcac cgtcaagagt gtcctcaga gcatttggtg tggccctgac 180  
cgtcccaagt acttgggtcc attctcggag cagattccat catacctgac cggagaattc 240  
cctggtgact acg 253

<210> 1387

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555076H1

<400> 1387

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caagattcag cttctgctca acaagcatat ccatgcaaga tcaataataa tgctaatttg 120  
gtgaattgta atcctaaacc ttttggcact ccttgtagta atatattggt tcatagttcc 180  
tcctctggga aatgtgataa gctacaaaag agccttcac tattccatca tgtcgccaca 240  
cataaatggc tgtgtgggtt acaggattcc att 273

<210> 1388

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555077H1

<400> 1388

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ttccaagtga ctctgtccct cgctagagac tacgatggca acaactcaac caacggaaag 120  
 ttcatctcctt actgggacac tgaaaagggtc actcccgaag tgataaaaaa attcaagaaa 180  
 aaatacgaac ccaccgcact gaggggttaag gttcttgtca gcattggaaa caaaaacaaa 240  
 caatttcctt tcaccattgg ctcgactcg aacagc 276

<210> 1389  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555078H1  
 <400> 1389

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 caattattcc tcgtggccaa gctgggtggc tcacattttt tgctcccagc gaagagaggc 180  
 tcgagtctgg attgtacagt agaagttacc ttgaaaatca gatggctggt gccctgggtg 240  
 gaaggggtgc cgaagagggtt atttttggcc agg 273

<210> 1390  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555079H1  
 <400> 1390

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 aatgaaactc caacnnccac tagtgaagta cagaaaagaa gaattggaaa atctaagagg 120  
 agatggaaaa ggagagcgca aggnatatga taggatctat gattatgatg tctataatga 180  
 tttgggtaac ccagacaaga gcaatgatct agctcgtcct gttcttggag ggtctagtgc 240  
 ctatccatat cctcgcaggg gaagaactgg tagaa 275

<210> 1391  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555080H1

<400> 1391

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 tgattggtat agtggggttg gtggttgca tatggctgtt ggtcaaatat ttgtaaagat 180  
 aaaaaatacc caactcgtga agtttctctt tttttcatgt ttctgaatgt gcattgaaac 240  
 atgataacgt gtttctttgt tttttcttgg tg 272

<210> 1392

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555081H1

<400> 1392

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 ttntcaatca ctccccacct ttggaattca agggtttgag caaggaggag gaagactcat 180  
 tgctagggca agtggaaata tggaggtaca tgacatgctt cacggactcc gtggccttga 240  
 aagctgtcat agagcttcgt atagcggaca tactagaccg tt 282

<210> 1393

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555082H1

<400> 1393

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 tgatccgtta cacaagtcag gttattcatg aatcaggcca tacacagtgc aggggaacgc 120  
 cccttctatg attatcttga gagtngcctt cgccacaagt cagacatngt gatttttgaa 180  
 gctgccaggg caataacaga gctcaatggt gtaacaagcc gagaattaac tccagcgatt 240  
 actgttcttc agctattctt aagttcgact aagccagtct tg 282



<210> 1394  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555083H1

<400> 1394

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 cacagcaatt ggcctactta atgacttggg atgcaatgga gccacttttg ctgaggacct 180  
 tatcaatgag atgtgtcgat ttggtgcggc agagcttcat gctgttgctg ctttggtngg 240  
 aggaattgca tcgcaagaag tgatcaagct cataacaagg 280

<210> 1395  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555084H1

<400> 1395

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 cgtactccgg aggtgaaatg cgcaagttgg aggcttgctg tggaagcaca caacatcttt 120  
 ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat ccattggcgaa 180  
 caatatagat cagactccaa aacagttaac caacaagctt acttttatgc cagagacctc 240  
 gaagtccatc ccaaggacac atttgtgttc agtatagatg g 281

<210> 1396  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555085H1

<400> 1396

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 cagtttcaat tcctgctgca ccagcatcag ggtctctggc ccctgcaatt tctgttacgg 120

ataatgtgct gaagcacttg aataagatga ggtctgaacg aaatcaagat ttatgtttaa 180  
 gaataggtgt caaacagggg ggggtgctctg gtatgtcata cacaatggat tttgaagaca 240  
 gggttaataa aaggccagat gattcaatca ttgagtatg 279

<210> 1397  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555087H1  
 <400> 1397

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 cctactcaag ccatgctttg aaaaccatcc ctttttcttc ctttgtgaag cctgtcagta 120  
 ccaaaccaac atcattcttc acaccttcac ctaccaaacc tttcttacc ttcacctcac 180  
 caaaccactc tctcacaaa aatctcaagc tgaactccac tttgcnacac ttttgcttgt 240  
 cttcagttcc caaganatct ttcacttgta gaagccaggc t 281

<210> 1398  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555088H1  
 <400> 1398

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 caatcccttc gaagaagaag aagtcaatcc tttttcgaat ggcactactg ctctgcatc 180  
 aaagtcacgt attccaccat tagcatctga ntnactgggc tttggtcaaa ggcattgangc 240  
 tacagttgat attcctttgg atactacaaa tgactccaag 280

<210> 1399  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555089H1

<400> 1399  
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 atatgttgac atggatacag ggccattcaa tgtgaccaat atttatgagt tccataatgg 180  
 acggtggtat atggttcatc atcacagttc tgtggatggg gatgtggacc atcagattgt 240  
 gcatggataa tagtgagaga tgatgataca ttgt 274

<210> 1400  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555091H1

<400> 1400  
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 ttcaatagct gaatccatag atttccgtac gatagatgtt gngccacaat attcaggagc 120  
 aagaatagag ggggatgttg ttactttgaa ttttgtgaaa aaaatgattg aagatttcaa 180  
 gaaccagacg ttcttacata aacggtatgc attccagatt gtattgcaaa ccaagagagg 240  
 cattgcaagc tttgccttct cttgttgaca tac 273

<210> 1401  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555092H1

<400> 1401  
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 ggatgttttg tgggtggtgcg actggtgagg aggaggtcgt gtgactgctg tgaagaaggt 180  
 gaagtcattg gagaagaagt tgccatggcg ggagtggttt gtacaaagag aaaggtgtta 240  
 gggtcggaga aggatagttt ggtattttca 270

<210> 1402  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555093H1  
  
 <400> 1402  
  
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 ggtaaatacc ctgctggagg gaagtctgac atagaaggca tcttccctcc accttactat 180  
 gagtggtttc aattcgaaaa ggacttcaca gtgtacttta acttgggaaga atgcatctca 240  
 tacttatgcg attatattac agccaatggt cc 272

<210> 1403  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555095H1  
  
 <400> 1403  
  
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 acattgctaa taccgagttg cctccaactc accctatcag gctgggtctt gctctgaact 120  
 tctccgtgtt ttactatgag attcttaact ctctgatcg ggcttgcagc cttgcaaaac 180  
 aggcttttga tgaggctatt gctgaattgg atacattggg agaggagtca tacaaggata 240  
 gcactttgat catgcaactg ctacgtgata acc 273

<210> 1404  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555096H1  
  
 <400> 1404  
  
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 ttctccgtgt ttactatga gattcttaac tctctgatc gggcttgcag ctttgcaaaa 180

caggcttttg atgaggctat tgctgaattg gatacattgg gagaggagtc atacaaggat 240  
agcactttga tcatgcaact gctacgtgat aacct 275

<210> 1405  
<211> 189  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555101H1

<400> 1405

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ccccgagtag tgagtttttt cccccctaag ttggccaaac tttgttgaga ctgatcttta 180  
aaaaatttc 189

<210> 1406  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555102H1

<400> 1406

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tgtaggctct gcagttaata gacttaatga tgtggttgct atgattgctg aggtcagaag 120  
cattgctaatt cattgcaga caccatttca gatatccact gcacatgaag tggaaactca 180  
aagacagtag gttatgttgc aaagaaacca gatgaaggga ggtgtaagggt agtgaattaa 240  
acatgccaaag gaatattaag gaactgttcc aattattggg gtncnngggg 290

<210> 1407  
<211> 95  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555103H1

<400> 1407

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aagcaggntg ggagtgaaca aaggggcat tttgg

95

<210> 1408  
 <211> 187  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555104H1  
 <400> 1408

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 ttagccc 187

<210> 1409  
 <211> 100  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555105H1  
 <400> 1409

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 aacaccttct acagcaacaa ngagcanacc atcttacgtg 100

<210> 1410  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555106H1  
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 ttccccctgt ttgtntnttt aggataataa ttgaccaatt gggatatctg tcagttgaga 120  
 catttttcaa gaagtagcaa agtccttct acaatatttg acttggtgct ttccttttgg 180  
 atcttacaat gggaaacagt gaggaagaga aatctaccaa gactgaaaaa ccttcttcac 240  
 ctgtaacagt ggatcaagcc aatcagacca accagaccat 280

<210> 1411  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555107H1  
  
 <400> 1411  
  
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 ggccgagacg aaaccacggg atcatacggg aactatttta gaattgtgga aacagaaaat 180  
 gttggtatct ataacattca gtggtgccct accgaatgtg ccccaacttg agattctttg 240  
 tggcactggt ggtattctga 260

<210> 1412  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555109H1  
  
 <400> 1412  
  
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 atccgggctg aagacattgt caggtgggga gtttggctgg ggcggcacat ctgttaaaag 180  
 ataacgcagg tgtcctaaga tgagctcaac gagaacagaa atctcgtgtg gaacaaaagg 240  
 gtaaagctcg tttgattctg atttccagta cgaatacgaa cctgaaaagc gtgg 294

<210> 1413  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555110H1  
  
 <400> 1413  
  
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ngggggccat aagtggggtg gggcttgtga aggctttgca gaagagctac tacaacaggt 180  
 acaaaggtgg cgtgaacatg ctgctgatg gttacagcaa aggaaccggt ttgggcgctg 240  
 agattattgg cacctttatt cttgtctaca ccgtcttctc tgctaccgat 290

<210> 1414  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555111H1  
 <400> 1414

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 aacttgttcc tttacagtag tttatctttg cagagtctta ggtgtttggt ttaccagtta 120  
 tattttgaag tgtccgccga tttcatgtag ccgtagcctt caaaactggg ttcttgatcg 180  
 gcggtaacat tttcgttgct gtttggtttt gatgagtact gttttttggt ttgatggtaa 240  
 aagtctgaga tttcaaata caagcagcca taggggttta 280

<210> 1415  
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 <223> Clone ID: 700555112H1  
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<210> 1416  
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 <213> Glycine max  
 <223> Clone ID: 700555113H1  
 <400> 1416

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cccgagtagt gagttttttc ccccttaag ttggccaaac ttttggtgag actgatcttt 180  
taaaaaattc caaattgttt gattttatat 210

<210> 1417  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555114H1

<400> 1417

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gcaaggaaga tggaaactca tttatagcag cgcattttcg tctcgaaccc ttggtggaag 180  
ccgtcctggt cctcccatag gaagactcct tcctattact cttggacagg tttttcaacg 240  
aatgacatct tgagcaaaga tttgataaca tagtggagct tcaataggt 289

<210> 1418  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555115H1

<400> 1418

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ctttttcttt ctccagatgc ttatcttccg tottggtgag acttaagtac gctgattcac 180  
atgaatgggt caagcacgaa ggctcagtcg ccaccattgg tatcactgac catgcccagg 240  
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<210> 1419  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555116H1

<400> 1419

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 tggggtttca gctcccagtt catcctcctt tgggagcagc ttgaagaagg ttattggctc 180  
 aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg tagaagagaa 240  
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<210> 1420  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555117H1  
 <400> 1420

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 ccccatgttc atcccgagc cattgatctt gttgataaaa tgctgacagt tgatcccacc 120  
 aaaagaatta cagttgaaga agcactagcc catccatacc ttgaaaaact gcatgatgta 180  
 gctgatgaac caatctgcat ggaggcattc ctcatggat ttggagcaac aagaattggg 240  
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<210> 1421  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555119H1  
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 caccaagttg agcaggagca acactttgca gcaaaagtct actcagtcca tttccaaggg 180  
 ctttggtttg gaaccctgtt ggagctaaaa aggtcacatg ctccctcagg ctgatcntaa 240  
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<210> 1422  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555120H1

<400> 1422

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 ggacgacggt ttgcactata caccaaccaa gcatcgacat atttgagact tttgatgagt 180  
 tgattctaata gaaatctgga ggacggatta tttatagtgg aatgctaggc catcattcaa 240  
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<210> 1423

<211> 95

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555121H1

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<210> 1424

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555123H1

<400> 1424

atctgtttcc cgccatatat ccaataagct ttaaccatgt ctgcctttgt tggaaagtac 60  
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 gcagatgaga gacttggcac cattgggaag cgcctatcga gcataacgtt gagaacattg 180  
 aggccaaccg ccaagctctt cgcgagcttc tctcacgct ccagatgcc tccaatacct 240  
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<210> 1425

<211> 292

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555124H1

<400> 1425

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ccatctcagt catgggcctg ctatcttgtt ttaggtctac cgtcctgaga aaatgttcca 120  
aaggaagctc tggcatgtca agattcctgt atacgaacaa ttttcaacga aacttgattt 180  
cgtctggtgg caatgaatcg tattatgggt attttaacag gagatcatac acttcacttt 240  
atatgggaac tggaactgtg ggtgggatta caagtgctag aatcagggtg cc 292

<210> 1426  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555125H1

<400> 1426

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gatttgactt gctccgatgg tacttttgcc agagctgctg ttccaagtgg tgcattccact 180  
gggatttatg aggcccttga attgagagat ggaggatctg actaccttgg aaagggtgat 240  
caaaggctgt tgacaatgtg aacaccgtca ttggccctgc tt 282

<210> 1427  
<211> 224  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555126H1

<400> 1427

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nnnnnnnnnn nnnnnnnngg ggatggacga gttgctggcg gcgttgggtg acaaggttcg 120  
tgcttccgac atggccgacg tggcacagaa gctggagcag ttggagatgg tcatgtgttg 180  
tgcccaggaa gagggatttc ccacctcgcc tccgacaccg tcca 224

<210> 1428  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555127H1

<400> 1428

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 aaacaattat ctaaagataa tgaaagccaa ctatgcaccc cctttcttgg tccgaaaagt 120  
 gttcactcaa atattctcat tcatcaatgt tcaattattc aatagtcttc tgttgcgtcg 180  
 ggagtgttgt tcgttttagca atggagagta tgtaaaaaca ggtctggctg aattagagca 240  
 tgggtgcatcg aggcaacgga ggagtatact ggctctgctt gggaggaa 288

<210> 1429  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555128H1

<400> 1429

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 accactgttt caaccctcaa attgtgtctc ttcgctttct ggttttgatt aggttttggt 120  
 ccatttgaaa caatattcat cgatccatcg ccaaacatgc ctctagtcac ttgcttcttg 180  
 aggaacctat taggatggtc tccatcctga accatccaag cctagttttt tctctgcaat 240  
 gacaaagatg ttggtaccct ggggcctaaa tctagatccg tcgaa 285

<210> 1430  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555129H1

<400> 1430

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 ctgaatgggg ctctgaaatg tatagggcat ccattcacga ctgcaggatg atagggaaaa 120

tgtgatacac agtcagccg ttgaaatcca gtcgccgtta tctgcctcaa gacattcctt 180  
gatcttgccg gcagccgcct tacagggaag gacttcagcg aggccttgat gcggctgttt 240  
tcctcttact cttttctcaa gctcattgat ccaggttggg cattggct 288

<210> 1431  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555130H1  
<400> 1431

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gacgcagctg attgtggaaa tgtcagtggc aagattacct ggataagcac atgctttccc 120  
gaaaactcga agatgccgtc aatgccgccg ttagggccaa aacctccgat cccgttctct 180  
tcattctcga tcacatgcga aaagcagtgc aatcggatgat aacaaaaatc aaggcgagggc 240  
agatcctaga tagcagagga ttccaaccgt cgaagtcgac ttgcacataa a 291

<210> 1432  
<211> 293  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555132H1  
<400> 1432

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cctctctcag gaaggccaca ttacgccctt ccgtcttcgc aacccttaac actccttctt 120  
ctccttcctc ttcatcttcc ttccccctc tcattcaaga caggcctgtt tttgctgccc 180  
ctgcccccat catcacccca actgtgagag aggatatggc aaaggaatac gagaaagcta 240  
ttgagaactt cagaaattgt tgaggggagaa gagtgaatca aagcgacagt gct 293

<210> 1433  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555135H1

<400> 1433  
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ggaaaggggtg ccattaattt ttccgaagtg gagcatatca tcctcaaata taaccgttca 120  
gtggaagaag ttttcaagct gttcgaccta atccacattc tcaccactga tcacaacacg 180  
ttgcaagaat taccagagaa gttattgagg atttggcatc aagaggaagg tggctatcnt 240  
ggagtggagg actactccaa ggagaatgga tctgtgggat ga 282

<210> 1434  
<211> 85  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555136H1

<400> 1434  
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aatccaacac tatactgcac acacc 85

<210> 1435  
<211> 190  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555137H1

<400> 1435  
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tgggcaatcc agatgggtgt gtcctcgcc caatcattgg aggctctagc aactatcctt 120  
accctcgag ggtagaacc ggtagagana agaccaggaa agatcccaac agtgagaaac 180  
caggcgagat 190

<210> 1436  
<211> 188  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555138H1

<400> 1436

aggcccttga gcttttcttt cttctctctgc tctcttttct tttaggtttc cactctcaca 60  
 cactctccct cttctctttc tctgcaataa tctctcttct cttcttcact ctctcaactc 120  
 ctgccaaacc cccatttccg cagttcttaa atttgagtc gatgtntcgn cattgctggt 180  
 taccgaag 188

<210> 1437  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555139H1  
 <400> 1437

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 cgaagctttt ctgcgatcaa tggagtctga cccgatccca atcggttcgt gctccaaaga 120  
 acaccagatg atctataagg agtgggttcaa ttacgtgat tcagatagcg atggccgcat 180  
 tacggggagt gatgccacca agttttctgc catgtccaat ttgtcccgcg aagatcttat 240  
 caggtgtggg ctattgcaga ttcaaagcga caaggatatc ttggtttca 289

<210> 1438  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555141H1  
 <400> 1438

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 taatccatcc attaccacca gcaatttctt caccagaaac atcaccagaa cctcatattg 120  
 aagatacatg gatgcaggag ttgaatgcta acagaccgcc gacgccaaca agaggccgtc 180  
 cccagtnac aaacgaccga gcatgatgcc atttacggga gtctccgagc ctgtgaactt 240  
 aatccctgca gaaagttttg gttctcatca ctccatcagc aggcttgat aa 292

<210> 1439  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700555142H1

<400> 1439

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agcttttget gctcttcagc ctagagtacc tgaagcttac ctccaaaatg ggaactttga 180  
ggagcagcca aaccctaaat acctgaagaa aacaaagctc tttggtaaata acgctttgccc 240  
taaattgggag atcaatgggc tggttgagta tgtctctggg ggtccccaac c 291

<210> 1440

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555143H1

<400> 1440

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ttcagctccc attctacgct ctcccaacnt ccagtctctg anccgaagag cgaaccataa 120  
tggaagagta aattaccgga aaccgaataa ccgtttctcc gtgaaagcct ccgccaaaga 180  
gattgccttt gaccagcatt cccgctctgc tatgcaggcc ggcattgaca agctcgccga 240  
gctgttgggc tcaactcttg gccagaggg aggaatgttg tgttggatg 289

<210> 1441

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555144H1

<400> 1441

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tcgtcaagac cctcaccggc aagaccatca cccttgaggt ggaaagctct gacaccatcg 120  
acaacgtcaa ggccaagatc caggacaagg aaggaatccc cccggaccag caacgtctca 180  
ttttcgccgg aaagcaactt gaggacggcc gtacccttgc tgactacaac attcagaagg 240  
agagtactct tcacctcgtc ctccgtctcc gtggtggcat gcagatct 288

<210> 1442  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555145H1  
  
 <400> 1442  
  
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 gtaccccaga taccctaaat tcgattcata cacataacac aacacaacct cgttcctttg 120  
 ctgaccaact cgggttggtgt ttttttcttt cactttcacc tatgggttatg gcttctttga 180  
 ttcagttttc cccaactccc ctctcctctg ttcccatcac taccggtttc annggaccca 240  
 naagtctcgc cttocttgct ccttagatgc taatgtttcc gacatgagcg 290

<210> 1443  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555146H1  
  
 <400> 1443  
  
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 ttcgcagggc atatccaaga agagtaagtg caagcnttga cattgacacc ccacaaganc 120  
 ccaattncan tcaaccctaa tggctcgaat gctaaatttn nnnnnnnnnn nnnnnnnnttt 180  
 cganagggaa aggagagagg gagagtgata ggtgggtgtg gggttttcat ggaagcaaga 240  
 agaggcgggg aagagaaaagt tcaatggggt tgctgcaatt gtgggtac 288

<210> 1444  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555147H1  
  
 <400> 1444  
  
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 aaccccaaac tctcattctt caacggaaag cccgtcacat attcttcccg cgtcgcgccc 120

accaccaaatt tatectcatc caaacaaga atccatcgtg tcacgggaaa tgacgcgccg 180  
ctacatgacc gacatgataa cctacgccga caccgacgtc gtaatcgtcg gagccgggttc 240  
ggccggggctc tectgcgcgt acgagctcag caagaacccc gccgtgagcg t 291

<210> 1445  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555148H1  
  
<400> 1445

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aggtcttctt cgacatgacc atcggcggtc aacctgccgg ccgcatcgtg atggagctct 120  
acgcgcgacgt gactccgagc accgccgaga acttccgcgc gctctgcacc ggcgagaagg 180  
gcgcgcgggcg gagggcaagc ccctccacta caaaggtcgt tcttccacc gcgtgatccc 240  
gaacttcatg tgccaggcgg cgattcaccg ccggaaacgg caccggagg 289

<210> 1446  
<211> 175  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555149H1  
  
<400> 1446

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tgtttttgca agaggggtatg gcgaaggacg ttgaggttgc tgagcgtggc tcttctctg 120  
ggaaggacta ccaggaccct ccaccagcac cactcattga tgctgaggag tcaca 175

<210> 1447  
<211> 94  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555150H1  
  
<400> 1447

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ggtggaagca gcattttcct tgaatgccca ttcc

94

<210> 1448

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555151H1

<400> 1448

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aatcaagtgc gccatgaacc ccatcaacac cgtcttcgat gccaaagggt tgattggtcg 120  
tagattcagt gattcctctg ttcagagtga tatcaaattg tggcctttca aggtcattcc 180  
ctgggtgctgc tgacaagcca atgatcgtgg ttaactacaa ggggtgaagag aagcatttgc 240  
cgcagaagaa tctcttccat ggtgctcatc agatgcgtga gat 283

<210> 1449

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555152H1

<400> 1449

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cgtggagatt cattttgaat tatagattga aaatcccttg catatactga ataacaatca 120  
agcatataaa agggattttc tgggctgatg tagcggattc tgttcaatcc catgccttga 180  
agtggcataa tatanaaccc tcttaggctt gcctatggct tgttgtataa cagctgatga 240  
acggggtagt actgggcagg ttggtcgaag caatgggtcaa g 281

<210> 1450

<211> 99

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555153H1

<400> 1450

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atggcattca ctttcatggc taatgtgacc atncagttg

99

<210> 1451  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555154H1

<400> 1451

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atcatcatcc atggctgcct ccgtctccac tgtcggagct gtcaacagag ctcttttgaa 120  
cctgaatggg tctggacctg gggtttcagc tcccagttca tccttctttg ggagcagctt 180  
gaagaagggtt attggctcaa gggccccaa cacaaagatt tcctctggaa gcttcaagat 240  
tgttgctgta gaagagaaga aagagattga agagaccag cagaccga 288

<210> 1452  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555155H1

<400> 1452

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cgccgtaacc gttagatcga gcgactacga ctacgattgt gtgtacactg catacgtag 120  
aaccggttcg gtgttgaagg gcggaacgga ctctaagatc gggctgaagc tgtacgaaa 180  
gtacggctac tacatctaca ttaaaaacct ccgaagcatg gggcggcttg atgggcaagg 240  
ctacgactac ttcgagcgcg gcaacctcga catcttcagc ggaagggga 289

<210> 1453  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555156H1

<400> 1453

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 cttctcaagg aaatcgccct ccccaacggc cttcttcccc tcaaggacat ggaggagtgc 180  
 ggctacgaca gacaaaccgg cttcgtctgg ctcaaacaaa agaagagtta caccacaat 240  
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<210> 1454  
 <211> 98  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555157H1  
 <400> 1454

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 agagagagag tagcaaagtt tgtngttaag tntcattc 98

<210> 1455  
 <211> 290  
 <212> nucleic acid  
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 <223> Clone ID: 700555158H1  
 <400> 1455

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 ccacacgcct caccacgtac ccacaagctg ctctggttnn nnnnnnnnnn nnnnnnnnnn 180  
 nttcttcncc cagagacagc tctagctcca ttcagcttct gaccttgtcc acgtgccaat 240  
 gacctgcaag ccgaggccag agccatggca cgtgccgcca atgccaccgt 290

<210> 1456  
 <211> 187  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555159H1  
 <400> 1456

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cgtgtntttct gtnttcgttt gtngtntttt tttgctcnca tttgcgangg tgagaaccct 120  
 aaatttgaga gagagagggt tgatttggcc ggaggtgatt ctccggtgag attttgcggc 180  
 ggatcag 187

<210> 1457  
 <211> 96  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555161H1  
 <400> 1457

caaacacaca gcacgacgaa acctagcagc ctcacgccct catcgcagca gggncctagc 60  
 cgtnnccgga nangcactga gtctgaaanc agcgg 96

<210> 1458  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555162H1  
 <400> 1458

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 aaaaagaact gaattaatac acagtaaata ttggaaataa aattggctga atgaaaccaa 120  
 aagtaatgta gcactggtat tcagttaaga ggttcacgca tcactctgcat tccggctagg 180  
 gggaggagta ccggcaagcc aacccacac gccacctgaa tctctgttat ctgtttatct 240  
 g 241

<210> 1459  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555163H1  
 <400> 1459

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 gggtttttnc aaagcaggag caatgtcttc ctcttatctt cctgccacaa ctgagtcnct 120

tgctctggca aatgaggcca aagacccatc tgaggccatc tccatcttta tcgggtactt 180  
 gatgatcctt cttcttcacc agatgctttg cgtatgaaag agcaagcaat cacaaacctn 240  
 actaagcttc tcaatgatga aaatagggga gaggatctgt gcagcctct 289

<210> 1460  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555164H1  
 <400> 1460

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 gaccgcgctt ccgtgccatg ggaagcaaaa actccagcct ctccttntcc agcccgaagc 120  
 ccctcaagtt ctccagaaca atcagagcag cagccgccga cgagaccaca gaggcaccag 180  
 caaaagtaga ggctgcaccg gttcgggttc aaccaagcc tctctcttaa cccacccct 240  
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<210> 1461  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555165H1  
 <400> 1461

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 tgggaggcca aaggagagtt tcagggcacc tcaaggtaca aattggacag aaatggaaaa 120  
 atttatgaac acaaagttga taatttgga tcaatttccc tcagaatatt aaaccagttt 180  
 cagttttgga ttggttactg cagccctgca agtccaaatc ctacnttttn tggggtcntg 240  
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<210> 1462  
 <211> 97  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555166H1



<400> 1462  
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gcaagcacia ctcaagtcca ccttcactaa aactnct 97

<210> 1463  
<211> 216  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555167H1

<400> 1463  
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gccggcgga tcgggcagcc tctctccttc tcatgaaagc tcatccctcg tttcgagcct 180  
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<210> 1464  
<211> 186  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555169H1

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gagaggcttt ggctcatgcc cttcacctgg ggtgcttgg tttggccata aaaattatga 180  
tcagtt 186

<210> 1465  
<211> 283  
<212> nucleic acid  
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<223> Clone ID: 700555170H1

<400> 1465  
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atttcttagc taaaccctat tcgttttagca tttctctctt tttctccac tcgtaaattcc 120  
tctcccaaac ttttcagatc caaataaatc atgggttttct ggggttttgg ctacgggttca 180  
ctgggtgtgga accctggatt cgattacaat gagaagatta taggtttcat taaggatata 240  
gacgcgtggt tgatttagcg tgcattgatca ccggggaaca cct 283

<210> 1466  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555171H1  
<400> 1466

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tccctctaaa ctctctctca gattcgatcc tctctctctt tctttcaatt ccgctcccct 120  
cgcacgaana tgacaggggt tctcaacct cgcgcgatc annnnnnnnn nnnnnnnnn 180  
nnnnnnnngc acattccaac agcagtggta gnnatgtatt taatttgctt gcaaggagga 240  
agatctcgcc ccgatcaaga tatgtggcaa aaaggcattg gggagaacc 289

<210> 1467  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555172H1  
<400> 1467

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tccttctcca aatcatccaa gcttgacacc aaaaaggggt tgaaaggaag gtttagagtg 120  
tttgctgtat atggagaaga gatagataag aagagtacat ggagtgcgct ctttgatgtg 180  
gaggatccaa gatccaaagt gccgcagtat aaagggaagt ttttgatgt atatcaagcc 240  
ttgaatttgc aagatatgat attcaatact gtgattggcg agctcgcc 288

<210> 1468  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555173H1

<400> 1468

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 agattgtcaa caaggatgga aaacctacat acaagtgaag attaaggatg gtgagaccaa 180  
 ggtgttcagc cctgaggaaa tcagtgccat gattctgact aagatgaagg aaactgcgna 240  
 agcattcctt ggaaagaaan taagatgccg tggatcatgtc ccagct 286

<210> 1469

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555176H1

<400> 1469

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 aagaagatca gagagtatga ctcaaagagg ttgttgaagg agcactttaa gagactttct 120  
 ggcaaggagt tgccgatcaa gtctgcacaa attactgcat caactgattt cactgagcta 180  
 caagagaagg aaccctggct ttcattctct aaattggttg tgaaacctga catgttattg 240  
 gaaagcgtgg caaaagtggg ttggttgcct aaattggatt tgc 283

<210> 1470

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555177H1

<400> 1470

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 tgtatatgta aatcctagat gtaaaaatag gcagacttct cccgggaaaa aaagtnggta 180  
 aaaaaatatg ctaagtataa attgtctact gatgaaatac gaaagctgat gatattgaaa 240  
 aaaaaagnat tgtaaataag gttcagggtc gacttccata gagaatat 288

<210> 1471  
 <211> 189  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555179H1  
  
 <400> 1471  
  
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 cttgatttaa ctcctaaaaa gtcacaaaag gctgggttctt cagttgatga atttttgcgg 120  
 tccttgtgtc tcgaaaagta ttcataact tttcaggctg aagaagttga tatgacagct 180  
 ctcaatcat 189

<210> 1472  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555180H1  
  
 <400> 1472  
  
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 cctgagaatc cactgcagac cttgttccat aacattgaac aagtctcaag ctttgttcaa 120  
 caccatctct ctaatttcat aggcttcat caccacccat cttcaggacc cctcttgtcc 180  
 atctcttctt ccaccaaagg cccactttca aaaactgcaa cttctgtaca actcgctgat 240  
 actgctgtca aggaaaagtc tgctgccccca gtgactaagg aagagcttgg a 291

<210> 1473  
 <211> 183  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555181H1  
  
 <400> 1473  
  
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 tcattttctc tccgaagcaa gaaaaatgtt catcgagagt ttcaagggtg agagtcctaa 120  
 cgtgaagtac acagagactg agattcagtc cgtgtacaac tatgaaacca ctgancntgt 180

tca

183

<210> 1474  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555182H1  
 <400> 1474

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 aaaacaatca tggcttctct tcattccatt acattttcaa caaaaactgt cctttatgta 120  
 tttgtattgg cctcttccat cgcagcctct gctggcaact tctaccagga ttttggacgt 180  
 aacttgggga gatggctgtg ccaagatact caacaacggc gatcttctca actctttccc 240  
 ttgacaaggc ctctggctcg gggtttcaag tccaaaaacg agt 283

<210> 1475  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555183H1  
 <400> 1475

tgctgtgatt gctgactggg ttcaaaataa tcgtgatctt atgcccataa agtcgcagtt 60  
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 tagagagcgg ttccctgaca gcatttgacc tggaaacagt cattcaagca aaaatacgtc 180  
 cgcttactgt ggctcctggg aagtccttca ttggtttttt tcatcctgan ggatggatga 240  
 aggcagattt gactttcgta tggtgccagt ccttttga 278

<210> 1476  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555184H1  
 <400> 1476

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atcattaaca acagccctaa cccccccgac gtctttcaaa actgattcgg agcaattaat 120  
 gtaaaatcta tggacatcaa cgaggaatct tcattctctc tccgtttttg tttgcatcat 180  
 taatagaccc aaatggaccc gaacccgaca gcctcgctgg actccgaccc gganccgctt 240  
 cgcgtgaaga ggaagaccct cgaggccgtg ctcttgcaat gtc 283

<210> 1477  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555185H1  
 <400> 1477

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 gcatcagatt caagcatttc cttgcatcag aggtcacttt ccgaaagaag tattgcccat 120  
 tatattcttc actaccaagg gtcncagcaa gtanagtagg cgactaattt gttcagttgn 180  
 ccacagagga tttaccaaag gaagttgaaa aatctaakat ggagacacca gggaaagatt 240  
 cttaaaggat tacaaaatgc ctgattacta ctttgacact gtggat 286

<210> 1478  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555186H1  
 <400> 1478

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 tcgccaaatt cagaaccggt gtcnnnnnnn nnnnnnnnnn nnnnnnnnnn gtaccagcag 120  
 gtgccggagc aagatgctaa taacgacttg gaccgcgtag agacaacacg tttcgcaggt 180  
 acacgtccaa cgttaccaag gggagtggca aaggaacagc cattgtctgg ttcaggacga 240  
 tctcagagtt ttggataacg aggctctcta taaggcatgg ctttc 285

<210> 1479  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555187H1

<400> 1479

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 tttggaacaa caactcctct ttaaccgttg gagctagagg tccaattctg ctggaggatt 180  
 atcatcttgt ggagaagctt gcaaattttg ataggggaacg tatcccagaa cgtgttgtcc 240  
 atgccagggg cgctagtgc aagggtttct ttgaggtcac ccatgaca 288

<210> 1480

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555188H1

<400> 1480

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 ctcttttgett tcttggctct ttcagaagat gttgaacaag ttgtggacat aagtggcaac 120  
 cccattttcc caggtggcac atattacatt atgcatcaa cttggggcgc tgccgggtggt 180  
 ggattgaaac taggcccggac aggaaactca aactgcccag ttactgtttt gcaagattac 240  
 tcagaaatct tccgtggcac accagtcaaa ttcagcatac ctggga 286

<210> 1481

<211> 93

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555189H1

<400> 1481

atggccacca cnnagagagg cagcccgcag cagaagttgc cgccacaaa ctgacctnan 60  
 actattgccc gagacgctnc gagattgtga aga 93

<210> 1482

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555191H1

<400> 1482

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caattcatct atggctgcct cttcttatgc tatgcaatca atcctggcaa accctttgat 120  
cgcatttcc agcgggtcta gggatgaacca atttggcgtt cctgctttgc acatgagaag 180  
gaatgttggc ctgagagtta ggtccatggc taaggaagat caaccaagtg agcngcaacc 240  
ccagttacac cgccaccatc agtagaacc aagccacagc ca 282

<210> 1483

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555192H1

<400> 1483

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gacgcggcgg tgaaagctac cggatgcctgc gatcacaatg ggaggggtgc gagttcaant 120  
caacaagcct cacaagtccc gcttctcttc caaatcttct cgcaatcttc ataaaacctc 180  
tgtcaaggac agactcgcaa tcgcaaaatc agagcgcaat gtcggcaaag gagctcttgc 240  
agctcgaatt cagagaaata aatgatacga gatcaaaaaa gagct 285

<210> 1484

<211> 178

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555193H1

<400> 1484

ctgtgaacct cggaggactc aaagagaagc aaggtttgtg cggttgcttg caggtcaagg 60  
caaacgcaca agccctccg aagaccatgg agaaggttga gaatgatttg ccatgggtgc 120  
cgtcgtcgtc gatttcgcac gcccagagga cttttataaa tcagttacct gactggag 178

<210> 1485

<211> 287



<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555195H1

<400> 1485

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tctnaantaa ntgccagccc tcattgggtc agaagagtgt gcaagctggc acctttgcat 120  
gtgaattcta tadcagcagg agaggaggaa tgaaagattc ggataaatta acgtgggatc 180  
agggtcgatg tctgagtcct gcacaggcac gttcctcggc ctcacagaag cttatgggtg 240  
cgctcatgtt cttgggttcc ctcacctaca tggtttacac tctaaag 287

<210> 1486  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555201H1

<400> 1486

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tttggttgatc tgcttctac tagctctccc attgcaacaa ctacttgga tgtagactt 120  
ccattgacaa atgaagctat cgtgattcct actcaggta attacattgg gaaagcagcc 180  
aacatttatg atactgggta tcggcttaat gggagtgcac atgttatttc caaatacatt 240  
agcaatacag gttgtgggat cgtgtacgtg ttagtggtga gtttatggag gttt 294

<210> 1487  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555202H1

<400> 1487

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aaatgaaaat gggctaactc ttggtacacg acaaccagcc actcctggat ttcagaatgt 180  
cagcatttca aatcctaatt atagaggatt ggaggactac ttccagagg atgagattcg 240

aactagaagt cagagatgct agaaangaag atatcagcat ctgctccgta 290

<210> 1488  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555203H1

<400> 1488

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 ttattcgaag ttgatacatg cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntgccgag 120  
 ttctagaatc tctaggccgc tctctgaaat actgaaagag ctgaacaaga aagtaccgga 180  
 ctccctcgtc aaaacccgcc tccagaaaga tncaagatgc ctcccccatc cagattcatt 240  
 ccctggncng ttgtcaatcg cntttgaatt acagncctgc gtggtctggt g 291

<210> 1489  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555204H1

<400> 1489

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 ccgcccggct cctcttgta gagagaagtc aggcattcgc ctctttggca tcgaatttgc 120  
 cggcggannn nnnnnnnnnn nnnnnnnnnn taacaatttt gttgttgtct cggccgagga 180  
 ttctgagtcg gccgaaataa caacagcagc caacaccaac accaacaatca atancaacaa 240  
 atcaacattc gacctcgatc 260

<210> 1490  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555205H1

<400> 1490

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gactcaaagt gtcttcaatt gggtcacctt ttctgcagtt aggttcttct gcaagtgcag 120  
catgctctgt ttccaaactt ggttttcctc caccacgctt gcaactcaac aaaaattcac 180  
accaataag gctttttgtt cgggctgcta gaattgagtc caaagggtgtt accttgggtt 240  
tcaggacccc acaattcagc ttccggagcc ccttccggga cgacctgga 289

<210> 1491  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555206H1  
<400> 1491

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agtgttcacc gtacagaggt gtcaaccgga gctgggtggct cctgctaaac ccactcctcg 120  
cgaagttaaa cccctctccg acatagatga ccaacagggc ttgcgtttcc aaattccatt 180  
cannotattc tatggtaatg aaccatcaat ggcagggaaa gaccctgcta aggtcattag 240  
agaggcactt gcgcaaactc ttgtttttta ctacctttgc gggtaggat 289

<210> 1492  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555207H1  
<400> 1492

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cgttccgaga ctncagcctt tcgaatcctc tcaccagag gtacgattcg taccatgtag 120  
ttgtgggatt tcggctttgc cacttcttga ttccaataat tttggtttct ttttttcccc 180  
taatttgatt tccccagtta gggtttttaa ctctattcga tcggcgattc gaatactcgg 240  
aggctcgaat cgtgttgagg gttttccgtt ttataaaaaa gtttccg 289

<210> 1493  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555208H1

<400> 1493

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gctatTTTTT acaaaaagaa tgacgtgatc aaactattgg agaagcatgg agcaaagctt 120  
ctgatggccc ctatgcatgt taatcatgca cgtgaagtcc cagagtatga aatcaatcct 180  
aaagagcttg attttaccaa cagtgtggag ataacaaagg ggactttctg tattgcaactg 240  
tggcgtggaa cagaggttgc agtaaaaaag ctgggaggat gtantagt 288

<210> 1494

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555209H1

<400> 1494

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ccgcagcaac agcttnnnnn nnnnnnnnnn nnnnnnnnnn nncagcgga gaatgacgcg 180  
atgaaagtgg actctcgcg cggtccgac gccggcaccg aaaaggaatg tcagctacct 240  
gtccgcaactg gtatgatgca tcatggcat aatctcaacc aca 283

<210> 1495

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555211H1

<400> 1495

ggttgctcca ttcactggcc tcaagtccat ggctggcttc cccaccagga agaccaacaa 60  
tgacattacc tccattgcta gcaacggtgg aagagtgcaa tgcatgcagg tgtggccacc 120  
agttggcaag aagaagtttg agactctttc ctacctgcca gaccttgatg atgcacaatt 180  
ggcaaaggaa gtagaatacc ttcttaggaa gggatggatt cctgcttgga ttcagattgg 240  
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<210> 1496  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555212H1  
 <400> 1496  
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 tcttctcctt cctcttcatc ttctttcccc tctctcatc aagacaggcc tgtttttgct 180  
 gccctgccc ccatcatcac cccaactgtg agagaggata tggcaaagga atacgagaaa 240  
 gctattgaag aacttcagaa attgttgagg ggaagagtga attcaaa 287

<210> 1497  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555213H1  
 <400> 1497  
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 aaaatgcgtg agatccttca catccagggt ggccaatgcg gcaaccagat cggcgccaag 120  
 ttctgggagg tggtttgccg ggagcacggg atcgacccta ccggaaggta cggtggggac 180  
 tcggagttgc agctcgagag gatcaatgtc tactacaacg aggccagttg cggtcggttc 240  
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<210> 1498  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555214H1  
 <400> 1498  
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 agggcttatg accagggtgg gcatgatgtg gatttgacga agctgcctgt aagatttgca 120

atggacaggg ctggattagt tggagcagat ggtccacac attgtgggtc ttttgatgtc 180  
acatttatgg catgcctgcc taacatgggtg gtgatggctc ctctgatgaa gccgaccttt 240  
ccacaggttg ccaccgcagc agccatatga tcgacctagt tg 282

<210> 1499  
<211> 191  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555215H1

<400> 1499

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ctttccctct ttcttcttct cgcaccaccc tctctnacnn gatccaactc cctcaaacc 120  
taacgctcca aaacaaaaaa aaaccctcg ctcttaaatt tcattcttng aactcatca 180  
aancacatct a 191

<210> 1500  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555216H1

<400> 1500

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cttattgatg atgttgccct gaattgtctt gcttggctta gtggatccga ttatgccgca 120  
ctatcgtgta tcaataaaaa gttcaataaa ctgatcaata gtgggtatct atatgggttg 180  
aggaaacaat tgggggctgt ggagcatttg gtgtatatgg tttgtgatcc aagaggatgg 240  
gtggccttga cccaagata aacagggtga tcatacccaa gata 284

<210> 1501  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555217H1

<400> 1501

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gagaaatggc taaagatggt gaggttcaag agcaaggagg agagtactct gccaaagact 120  
accatgaccc tcctccagca cctttgttcg acccagagga gctcacacag tggtccttct 180  
atagagccct catcgctgag ttcatagcaa ccctctgctc cttatgtcat gtgctcacca 240  
tatggctaca aaaggcagac tgatacaagg agtggcacgg atgtg 285

<210> 1502  
<211> 260  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555219H1  
<400> 1502

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngccgccc tcagatctga tccctcagat 120  
cacgctaca aagaaggcga ccccgccct ctctgcgcca acaaagttgg ccccttcac 180  
aaccctagcg antnctaccg ttacttcgac cttccctttt gtgaaccagg tgatttgaaa 240  
gagaaaggag gcgctcgggg 260

<210> 1503  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555220H1  
<400> 1503

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tcaaaacatt cccgatgcgg aggaggaac cttggagatt ggaatggaat acagaactgt 120  
gtctggagtt gctgggccat tggtcattct tgataaagtt aagggaacct agtttcaaga 180  
gattgttaat attcgcttgg gagatggaac tactcggcgt ggacaagtgc tagaagttga 240  
tggtgaaaag gctgttgttc agtcttgagt acatctggga tga 283

<210> 1504  
<211> 287

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555221H1

<400> 1504

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tgttaccact gtcaaccgtg ccggtgccgg catggttgct ccattcactg gcctcaagtc 120  
catggctggc ttccccacca ggaagaccaa caatgacatt acctccattg ctagcaacgg 180  
tggaagagtg caatgcatgc aggtgtggcc accagttggc aagaagaagt ttgagactct 240  
ttcctacctg ccagaccttg atgatgcaca ttgcaaagga agtagat 287

<210> 1505  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555222H1

<400> 1505

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ccaatgggtg gccttgccag aggaatgtcc attagaggtc cacctgcagt ttcaagttca 120  
actggtctta ataatggtta taataatttg tcagagcgca cttcatacag ctctagggag 180  
gacctgcat caagatatac tccagataga ttgctgggtt cgactgctta cgatcaatct 240  
attgttncaa gatcgtaata tgaataggta agggactgag aaatg 285

<210> 1506  
<211> 247  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555223H1

<400> 1506

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cgacgagttc ggaaggccgt tcataatcct gaaggagcag gagcagaaga gcagactccg 120  
aggattggac gctcagaaag ccaacatctc cgccggcaaa gccgtggctc gcacccctccg 180  
aacctccctc ggccccaaag gcatggacaa gatgctccag agccccgacg gcggtcacca 240



tcacgaa

247

<210> 1507  
<211> 190  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555224H1  
  
<400> 1507

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accctccccc actcagacca cgccttgcc cgggtgcccc cctccatgg tcggagacat 120  
cttcggcaag agctggggaa cccctcaacc ttcttctgct tccaaaaaca tcgggatgct 180  
caataagaac 190

<210> 1508  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555226H1  
  
<400> 1508

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ctcatcaggc ttcttccct tttctagaaa atcttcagag gatttccatt ctgtcattgc 180  
cttcagacc tatgcagttg gaagcagtg aggatacaag aagggtgtga cagaagcaaa 240  
actgaaggtt gccataaacg ggtttgaga tggaaggaat tc 282

<210> 1509  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555227H1  
  
<400> 1509

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accttctttt cttttctctt cttcctcctt caagttcaaa cccacatcca tcaaagtctc 180  
ccaccaact ccacaccnaa gtcctgcnc cccacactc ccaagatcgc gtcttcaatt 240  
cgccgcccgc cccgccaccc tcccggaaag tctcctcctg cgcc 284

<210> 1510  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555228H1

<400> 1510

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ttgagcagtt catntgttga tcctggaaga gagtggaggc tctttgttag caaaagttgc 120  
aagaggcagc gcaaggatag gagagtgacc attgtcaatg aacttggagg acaatatgag 180  
gacacttttg aagatgttaa agcgcaaagc ctcaactatt tcacatacaa ggctgtgagg 240  
actgttctgc atcagttgta tgagatgatc cacctaaata cacg 284

<210> 1511  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555229H1

<400> 1511

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gagatgggtg aagaagtga ggcctgggtt ccagagtctg ttttgaagaa gcagaagaga 120  
gaggaggaat gggcgttggc caagaagcaa gacctgagg ctgcgaagaa gaagagagcc 180  
gagagccgca aactcatctn acaacagagc taagcattac gctcaaggag tacgatccac 240  
caggagaagg cattgatttc ggttgaacgc gaggccaagc tga 283

<210> 1512  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555230H1

<400> 1512  
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 gtcgccgatt tcgcgaggcc ggtggggcgt gtccgagcgg tgacgagcga cgacgagtgg 180  
 ggcccnnnnn nnnnnnnnnn nncatacggc ggaggagtgg cgggtggagga gaaaccgacg 240  
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<210> 1513  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555231H1

<400> 1513  
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 aaactggagc gagtttgtcg acaaaatggc ggcggcggaa gcggttactt atggcgtggg 180  
 cgtgaattct ttgaggagtt ggagccagca tatgcagggg atttcaagaa gatcagaaac 240  
 gataaagtgt ggtgtgttgg cccgtttctc agaaacagga at 282

<210> 1514  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555232H1

<400> 1514  
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 gttgctcttg ttattagctt gctnctgtat tcagcactca ttttgtgatg aaccttctga 120  
 tactggacta aacaagtgga aatgtagatg ctcttcatta caagggaaca agatatactc 180  
 tcttgctaatt tgttccaagt catgtgattg ccatccagat gctgaagaga atgcatccat 240  
 atggacatgc gatgtgcac caaacggggt tcnaaagtga cagcagatg 289

<210> 1515  
 <211> 101  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555233H1

<400> 1515

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<210> 1516  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555234H1

<400> 1516

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 tgatgatgga tgggtgctgg gtattcacct gaatttggtc attcgtgata ccctttgatt 180  
 gagtatccga gcaggttagg aagaatttag ttggggaatt ataattttgc tgtgagtgga 240  
 ataagaatct tgatagggtc tgtttgtatt cttgaagtct gatttnttt 289

<210> 1517  
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 <212> nucleic acid  
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<223> Clone ID: 700555235H1

<400> 1517

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 cctggccgac atcataatga catgcaattt gtatttgggt ttgcaaaca tcctgggttaa 180  
 gagctttacc tctgagtttc ctcatgttga gagatacttt ggacctggtc aatcagccaa 240  
 acttccgaaa aataattggg cagtcaagcg gctgaagcta ttcct 285

<210> 1518  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555236H1

<400> 1518

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 tctcaactct cattcaaccc acttccacca tcaacttctt ccttttcttc accccgtaca 180  
 ttcacaaccc tggctctctt caaatctaag acaaaagccg ctcttgctaa gactaagggt 240  
 acaaagccaa agcaaaagggt tgaagatggt atttggcatt ctgga 285

<210> 1519  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555237H1

<400> 1519

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 ggagagaag ggcaaaagat ttgatcttcc aaacgaggag tttctgggggt gtcccaggat 180  
 gaggctaaac ggtgaaatct caagcnnnnn nnnnnnnnnn nnnnnnnnnn nnacgggaac 240  
 gacgncgttt tcgtcgcaga aatggtcgtg ctagctttaa cgt 283

<210> 1520  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555238H1

<400> 1520

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 gtcgagttcc agactcagtg cttggaaatc gactccaagg aagtcaaggc tcagatttgg 180

gacaccgccg gccaaagagcg attccgcgcc gtccacctac cgccttactc accgcggcgc 240  
tgtcggcgcc ctncatgtct cagcacatct tcccgccgac cacctttcgg attagcg 297

<210> 1521  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555239H1  
  
<400> 1521

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attcctgaac aggacattgt caagcttggt gacaccttc ctggccaatc cattgatttc 180  
tttggtgcac tgagggccag agtatatgat gatgaagtga ggaagtggat tctggtgttg 240  
gtgttgacat gttgggaaga agctgtaact caaaagagga 280

<210> 1522  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555240H1  
  
<400> 1522

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gaatatatgg cgttttctat ggttttcatt gtttagcaaca ttatgctgct tttcagttca 120  
gcatttgcca aaactgctag tcttccctct ctgagcccaa ctccagcacc agccccggca 180  
cccgactacg tgaacctcac cgagttgcta cagtgttgct ggtccattca caccttcctg 240  
gataccttga gtccaccaa gtgatgacat tccaaaacca agc 283

<210> 1523  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555241H1  
  
<400> 1523

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 gttacaaaaa ctagaagctc tacacagggga gttcctcttt gaattttcca tgctgaaata 180  
 atgtcgttca gcaaactgc agcacgaaac tttcgtctt ttgacatgta cgaacantga 240  
 gatg 244

<210> 1524  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555243H1  
 <400> 1524

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 ttgagttgaa aggatgtggt gtactatctg aagcattcat taattgtcca ctcttagcat 120  
 ctctcgatgc ttccttttgc agccaactaa cggatggtg cttgtctgca acaactgtct 180  
 catgcccact gattgaatca ttgatattaa tgcattgctc atcaattggt tcagagggtc 240  
 ttcgatctct gtatgtctcc aaatgactgt tctggact 278

<210> 1525  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555244H1  
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 ttccagtgat ggcattctgt gccctcaaac ctgcccttt cactgttgag aagtcctcag 120  
 tgagaggcct tccctctctc tcaaggaact cttcttcatt cagagttgtg gccagtggca 180  
 agaagatcaa gactgacaaa ccttatggaa ttaatggtgg caggcttgag ggaggaatga 240  
 tgcacggca ggaaaggaaa ggaggtgttt accatt 276

<210> 1526  
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<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555245H1  
 <400> 1526  
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 tatggtgccc gtactccgga ggtgaaatgc gcaagttgga ggcttgctgt ggaagcacac 180  
 aacatctttg gctttgagac catcctgaag agtgcgttga agcaacaaag gaatacatcc 240  
 atggcgaaca atataganag actccaaaac att 273

<210> 1527  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555246H1  
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 gaagttcatg gcagagatga aatgattttg atcaattttg gttcagtggt ccaaaaggcc 180  
 tgatgtttct tggagctctt gtgaacctga tttctaacct cttgccagtc ttcttcgaat 240  
 ttgggactca cttctttaac ctggtactgt tagaant 277

<210> 1528  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555247H1  
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 tcatattgat attggtatgg tctttctttg aacccattt gcannnnnnn nnnnnnnnnn 120  
 nnnnnnnntt cagtgtgatg tgtgtgagaa agcccctgca accgtgattt gttgcgcaga 180  
 tgaggcagct ttgtgtgcca aatgtgacgt tgaagttcat gctgcaaaca agctgcaagc 240



aagcaccaga ggctctcctc aatgtcntca aacaagctcc c

281

<210> 1529  
<211> 277  
<212> nucleic acid  
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<223> Clone ID: 700555248H1  
  
<400> 1529

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gaaaattgat ggtagaaggg tgcttggtga tggtgagcgt gggaggactg ttccaaattg 120  
gagaccccggt cgcttaggtg gtggacttgg taccgctaga gttggagggtg aagaagttaa 180  
tcagcgacat tctgggaggg agcaacaaca gtctcgttct gaagaaccga gagtgcgaga 240  
ggaccgacac gctgatagag cnggaaatat ccacgtg 277

<210> 1530  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555249H1  
  
<400> 1530

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aactatata ataccataac cttatctatc gcaaccacct cccaaatcac tctcatccaa 120  
cttcatctct ctcttcccc agttgccaga tcngaatac accttcactc ttgcgattta 180  
attactgagt agttgaggat ggctcctttt gcttttgcaa cattgcctc ttctcacatc 240  
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<210> 1531  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555250H1  
  
<400> 1531

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<223> Clone ID: 700555254H1

<400> 1534

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ccattttcac acccttctac ttgcgcctt tctttctctt cttcccttca ctctcatcc 180  
ttctctctat caatttctcc ttcttttttg tccatactat tcttcaagtt ctacacactt 240  
tgccactcat gctgccttca gcatcagtgc gtgccgccga gaaga 285

<210> 1535

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555255H1

<400> 1535

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accgtcaaga gtgctcctca gagcatttgg tatggccctg atcgtcccaa gtacctgggt 180  
ccattctcag agcagattcc gtcatactg accggagaat tccccgggtga ctacggatg 240  
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<210> 1536

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555256H1

<400> 1536

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gccagagcca gtgattcgag tccaagcctt ggctgcaagt ggcttagcca caatccccga 180  
acgtttcata aagcctaagt cccaaagacc cactaatagt aacaattatg ctccaaagac 240  
cattcctctc caaattggct atcataagac attaccacca acagc 285

<210> 1537  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555257H1  
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 tccaacgcct tgggtgtcagc tacattgatc tctattatca gcaccgtgtt gacacaactg 180  
 taccattga agacaccatg ggagagctta aaaggctggc ccaagaggga aaaataaggt 240  
 acataggatg tcggaagcta gccctggnac attaggaggc a 281

<210> 1538  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555258H1  
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 ttcactttgt taggttcatt ggggttattg ttcgttgcaa tttaccagtt atcttggtat 180  
 ggattgttct ttatttctga gaaaatagtg attttcttta ttccggactt atttattttc 240  
 cattatccac acaanaanan tgcaaacana naaa 274

<210> 1539  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555259H1  
 <400> 1539  
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aagaacagtg tgctgcaagc aattttagta aggataaaaa ttcaggaaca attattgttg 180  
 atgaagatca gcaaaggccc aagaggaaac agaaagataa tcattatatt gactggaggc 240  
 aacactgaag atcaagaaac aggtggtaag caatatata 279

<210> 1540  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555260H1

<400> 1540

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 atggctggct tccccaccag gaagaccaac aatgacatta cctccattgc tagcaacggt 180  
 ggaagagtgc aatgcatgca ggtgtggcca ccagttggca agaagaattt gagactcttc 240  
 ctacctggcc agaccttgat gatgccantg ggcaaaggaa g 281

<210> 1541  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555261H1

<400> 1541

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 tacggctact ggccggagaa cgacatgctt ttccaaaacg aagaccttgg cagctgggcg 180  
 ataatggatg aggcagcggt atcaggggtca ggggtactatg attcaagctc cccggacggt 240  
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<210> 1542  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555262H1

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 aaggtcatgc tgatatttca tccagggata gatttgcaag gagtaatggt attcccattt 180  
 ctataagata taagaagttg ggcaacgagg aaataagcat gcaaggagat caccaccaaa 240  
 gagataggtt ggcaacagac nttaggacac ctctggagc 280

<210> 1543  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555263H1

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 tacagcacca gttggagcac gatccagcac tacagtttgc gcattgctga gcctgatagg 240  
 cctctgtggt tcccaggcag caccctcct caggctagat ggca 284



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ctggcgaaaag agacgacggc tccggcaacg agcccgcctg cgacggccac caccaccaca 240  
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<223> Clone ID: 700555270H1

<400> 1550





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tgctatttgg gggttggttt catgacaatc ctagtggaag ggaacttcta tcagagctat 180  
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aataggagag gttatctagt tgttcttgta caggatagt 279

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gggtgtgcagc gtgatggatc cggttgaagct ttcatacgag gcgcgtgtgc acgcgtcgca 180  
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tgatgctttg gataagattc gattcgagag cttaaccgac aagagcaagc tcgatgctca 240  
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gtttattatt gtattgtatt cttttcttct gggctctgggt ggctgttgaa agattataga 180  
ttagatgatg tgatgtgaaa ganatgaatg aatagttttt ttggatgact tgtttgtgag 240  
gtgagcgcaa cagagagaga gagcagagag agcagagca 279

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atcttaattg gaacgaaatc tttcaaaatt ggatttctaa ttcttaattt atattttcgt 180  
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 accatactgg agatttcaac caggcaacta tctatcagca anaggcacta gatattaatg 180  
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 gaaaagggtca gttatgacaa tgacatggat ggtagcaatg gaaggaggaa cttgatgttc 180  
 cgccgcggcg gcggctgctg tttgctcngt tgctgggatg gcatggcaga tgagcctaaa 240  
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 <223> Clone ID: 700555284H1  
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 tcagccccag aagtgggaag ggtgagcatg aggaagaccg tcaccaagca ggtctccttc 180

aggaagccca tggtagggcc cagaccgagt caagtacttg ggcccattct ctggcgagcn 240  
cccgccctta ccttaaccgg tgagttccca gcggtattacg gctggga 287

<210> 1562  
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tgtacaagcc accagtgtac aaaccaccgg ttataagcc aaaaccaccg gtttacaagc 180  
cgaaaccacc ggtttacaag ccaccatata agaagccacc atacaagaaa ccaccttatg 240  
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ttcattggac caattagcag aatttggggg gttatactgg aagctgaatc caactatcta 180  
tgagaacgat gaagagttgg ccaagattag agangatagg ggatacaact acatggacct 240  
gctgatttat gccagaaaa gtgaaantna tgaacaga 278

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 cctgatttac aagcttggag gcattgacaa gcgtgttatt gagagggttg agaaggaagc 180  
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 gcgtgaaaga ggaatcactt gatattgctt gtg 273

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 <223> Clone ID: 700555292H1  
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 gagaccagca gatataatta gaaggaaaag accattagct gtttggttcc cgtacacaac 180  
 tattgagcgg ttactatacc aactcgatga attaatacaga atgggtcgca ggtagatcat 240  
 gtggacaagc tcaaaaaaat gttcatgatt cttacag 277

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 ttcaaaaaaa ataagaaagt taaaaaaaca aaacaaaact ttgtacctat gtagcttttc 180  
 acaggacgct ctcgtgttaa gtagtatttc ctaggttcaa gttgtggtat ttaaaatgta 240  
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<210> 1567  
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<212> nucleic acid  
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<223> Clone ID: 700555294H1

<400> 1567

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ttcaaaaaaa ataagaaagt taaaaaaaca aaacaaaact ttgtacctat gtagcttttc 180  
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<223> Clone ID: 700555295H1

<400> 1568

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ccatgtttct tgaaattctt gtaatgcctt cctttttata aaagataaag tgtacaatgt 180  
caatactaag caatgacaac atacaacaat aacaataaca ataatttttag gatcaagtta 240  
taccttaatc aatccgtccc atactttcgg ggcacatcaat 279

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<223> Clone ID: 700555301H1

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<223> Clone ID: 700555304H1

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<223> Clone ID: 700555305H1

<400> 1572

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 tgaaaagcca cctggctgat gaacttttgg gcagtatncc gatattggga aagttcagtt 240  
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 aagtcttcat gagatccttg gtgggtgtca agttgcagat ttaatactgt ggaggcggaa 180  
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<223> Clone ID: 700555309H1

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 agctgttggt gttgttggtg gctgggggta gtctctgtgg aggtttgggt gttttttgag 180  
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<213> Glycine max

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gatgtcaaca aagcaataat gatgcagtga tgcaatggaa acgggaacag ttgcagataa 240  
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<212> nucleic acid

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<223> Clone ID: 700555312H1

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572



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<223> Clone ID: 700555322H1

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aaataggctt ncaagaagag aaagcagcaa tggcagatgg aagccttgnc agtatcaaag 240  
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<213> Glycine max

<223> Clone ID: 700555324H1

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aggaccagag agctctaaga ttgagtttga gaatccactt gttgcagagg caaacttttg 180  
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<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555326H1

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tcgtaatttt cttcagcaga aaacgaaact attgcttcca gagaagagca tcattctacga 180  
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acacactcna tcattgagcta ttcagggatg gaggttagc 278

Figure 1 consists of 12 bar charts, labeled (a) through (l), arranged in a 4x3 grid. Each chart displays the percentage of total protein in various fractions (A, B, C, D, E, F, G, H, I, J, K, L) for different protein types (A, B, C, D, E, F, G, H, I, J, K, L) across different conditions (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12). The y-axis for each chart is labeled 'Protein' and ranges from 0 to 100. The x-axis is labeled 'Fraction' and lists the fractions A through L. The bars are color-coded by protein type: A (black), B (white), C (grey), D (dark grey), E (light grey), F (medium grey), G (dark grey), H (light grey), I (medium grey), J (dark grey), K (light grey), L (medium grey). The charts show varying distributions of protein types across fractions under different conditions, with some conditions showing higher percentages of certain protein types in specific fractions.

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<400> 1590

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<400> 1591

576

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 gaaaacgctt ccggtggaaa cttggccggt cttcccaaag ttctcggaag tacgcttggc 240  
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 <223> Clone ID: 700555332H1  
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 gactccgagg aacacagatt cggagccccg aatgttaatt cgggtagcac ttccatgtac 240  
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<210> 1594  
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 <213> Glycine max  
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<400> 1600

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ctgggggtttc agctcccagt tcctccttct ttgggagcag cttgaagaag gttattggct 180  
caagggtccc caacacaaag atttcctctg gaagcttcaa gattgttgct gtagaagaga 240  
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<223> Clone ID: 700555341H1

<400> 1601

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gaatcagann caggcgtacg tatacgtgta gtagggatgat tgagagatgg acgctcccct 180  
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<212> nucleic acid  
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<223> Clone ID: 700555342H1

<400> 1602

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 actgctcttg atagtgggtga tgggaaggagt catcataaca tgagtgatga tgggtcgggtg 180  
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<223> Clone ID: 700555343H1

<400> 1603

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 atcgatcttg cactcatttg gaatttgaca tttcaggcac tggagttaca tatgaaactg 180  
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<210> 1604  
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 <213> Glycine max

<223> Clone ID: 700555344H1

<400> 1604

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 cattcactgg cctcaaggca agcgcaggca aagtgagtgc cgccgcagtt aaagtctcag 180  
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 ttgaatgtgg ggagtggaag cagggtggcc tcagtcacac gtgncagggt tcacagttag 180  
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<210> 1608  
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<212> nucleic acid  
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<223> Clone ID: 700555348H1

<400> 1608

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cgcacatctt cctccgtctg cactctcttc ctcttctgcy ctcttcttc tcaact 115

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<212> nucleic acid  
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<223> Clone ID: 700555349H1

<400> 1609

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gacctggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aagggtattg 180

gctcaagggt cccaacaca aagatttctt ctggaagctt ncaagatggt gctgtagaag 240

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<210> 1610  
<211> 274  
<212> nucleic acid  
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<223> Clone ID: 700555351H1

<400> 1610

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gaccactatg gcaaaggcac tggtcttgat gcggataagt atgctatcat gcgcctgggt 180

caaattcacg ccagagatct tcggattctc gaccctctct tatcgtatcc ttccaccatt 240

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274

<210> 1611

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555352H1

<400> 1611

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cctagaaccg ccgccgcaa tggctcgac cgcttcctat acggcaaccc tctctgcacc 180

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<210> 1612

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555353H1

<400> 1612

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aagaaggtag tgtcgtacac tatcattgat ggggaactcc ttcagcacta caaacattc 180

aaggagaca ttccagtgc tccaattggc gatggatgcg aggtgaagtg gaggctgtg 240

tacgaaaagg ttagccatga tattctgnat 270

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<223> Clone ID: 700555354H1

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 gcgnccaaac ttcacctncc cttcccttgc caacagtggc cagcactcca tgcaccaccg 240  
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<210> 1614  
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 <223> Clone ID: 700555356H1  
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 agactgtgaa tacaagtggg agagctccat ttcacacgc tgactgcaag ttgttggtctt 180  
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 atgaactgtt accttgaaca ctttgaaaat aatgta 276

<210> 1615  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555357H1  
 <400> 1615

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 gcaacttgag gacggcctga cccttgctga ctacaacatt cagaaggaga gtactcttca 240  
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<210> 1616  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700555358H1

<400> 1616

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gctgcagatg aagctgtncg gaaatgggtc ccagctgctt attctatcag acncttcaga 180  
agcactggaa ccaactcatc ctggctattc ccatactcct tgctgttggt actgttccat 240  
cagcntctaa tccagatggc ctgcgaatgn tcagctt 277

<210> 1617

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555359H1

<400> 1617

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tcattggtgc tttaagcaaa gcaggttatg ataaaccagg atcccaaaag gtttatattn 180  
caatgccact aatagttctg tactgctgaa attgcaagga gaaaaccagt tcatgagcta 240  
gtgnacaag attgacgaga ctgttgagga ggcagctc 278

<210> 1618

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555360H1

<400> 1618

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gtctcagaa aggctttgaa ggatggggga ctgatgagaa aactgtcata gtaatattgg 180  
gtcatagaac tgtttatcag agggcagcaa atcagaagag tctatgagga antttccagg 240  
aggatctgtg aaacgcctag agtctgagat c 271

<210> 1619  
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 <212> nucleic acid  
 <213> Glycine max  
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 cctgcccact gcaacaagga cactntcaca agaccaagct gctctgcaga cttgctgaca 180  
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<210> 1620  
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 ctctcttttc ccatggagggt ggagagtgtg atttattgaa ctaaaaaagt aacttgtgat 180  
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 ggcgatcatg ttgggaagta gcatgcaatg gtaaccctag anataggagg gacattctga 180

tcggccttgg aggactctat ggtgctacaa caagtctcac aagtaacaac actggttctg 240  
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<210> 1622  
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ttacaaatta tgctgcagct tattgtactg gtctcctgtt ggcnegaaga gtcctcaaaa 240  
cacttgaaat ggatgaggag tacgaggaaa tgttgag 277

<210> 1623  
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tccgccttca agacaaagtt cgccaagacc tacgccacgc aggaggagca cgaccaccgc 240  
ttccgtatct tcaagaacaa ttgctccgcy ccaagtcg 278

<210> 1624  
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<223> Clone ID: 700555367H1  
  
<400> 1624

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gaaactgctt caagaggagg tcagcgagat tcaagtttcc aaagcttagc agacaaatcc 180  
ataactcgtt tttacttgaa tttcggcttc atggccacgt acgccaagtt ggatctcctt 240  
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<212> nucleic acid  
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<210> 1626  
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<212> nucleic acid  
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<223> Clone ID: 700555369H1  
<400> 1626

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ttgtaggtgg tctcaactgcc ttccatttgt atttgataag taccaatcag actacatatg 180  
aaaacttcag ataccgatat gatcggncga gccaatccat ataataaagg agtgttgaat 240  
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<212> nucleic acid  
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<223> Clone ID: 700555370H1

<400> 1627

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tgccagaaan ngtagtcgta gtttgctctg ctggaaatga tggaccatca cctttaagt 180  
tcacaaatgt tgcaccctgg tccatcacgg ttgnctgcta gnacactaga cagggatttc 240  
tcagcgacat ttctctcagc gnacaatcaa tc 272

<210> 1628  
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<212> nucleic acid  
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<223> Clone ID: 700555371H1

<400> 1628

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agaattctct gggctaagat ccacttcatg tgtgacatat gctaacgatg ctagagaatc 180  
ttcctttttt gatctttag cttcccaact tcactcccaa gaccaatgga tcatcaactc 240  
ctgtgagggg agagacagtg gccaagttga ag 272

<210> 1629  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555372H1

<400> 1629

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cttcatctcc gaagctatgg agttcgttct caaggtgttg aaggatggtc tttctgccgt 180  
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cgacgcttcc cctggacaaa gcaacagggt ga 272

<210> 1630  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555373H1

<400> 1630

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tgtgactttt cacactacta ntaagtaata atncactttc caattgatca ttcttctc 178

<210> 1631  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555374H1

<400> 1631

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cagacttcaa actcaacttc agttcaagag aaaactatgc catccaaaag ggtctttcta 180  
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tgtttttatc taggctcctg ttaaagaggg tc 272

<210> 1632  
<211> 240  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555375H1

<400> 1632

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agagtctttt cggaagcaa gagagggttc tctccgtttt caatagatct ctactgtct 240

<210> 1633

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555376H1

<400> 1633

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caacagtgcc ctcaaaccgt ggcatgtttg ggtcacactt ggtggaacct ttgtccatta 180

attcgacaaa gttgtgggga cctagaattt ctgctgctgt tgcacaagaa gaggctgttg 240

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<210> 1634

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555377H1

<400> 1634

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ccttagtttt cggttttctg tcttcttttt tctctattt atattttggg ttggttttct 180

gttgagtctt gacttgcttg ntcnaatcca acccagtttc acacnagttg gnngncccca 240

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<210> 1635

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555378H1

<400> 1635

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ataatgatca gtagtggttg taa 263

<210> 1636  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555379H1  
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gatacgggaa ntatgggttag agacccctc tctaaacata ttgcgggtctt acttcaaatg 180  
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<210> 1637  
<211> 255  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555381H1  
<400> 1637

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tgcagtgagt tcaactggcag ttgctgggtg ggttgcattg gtgggctcag ctgggatgat 180  
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ngnttgctac aagac 255

<210> 1638  
<211> 271  
<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700555382H1

<400> 1638

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 agtgacacaa cagtagagag acgagtttat tgctctgccg ctgctcaatc accaccacca 180  
 gcatggccag gaacagctat tcccgagcct tctgatttca agacatggga tgggcaaaaa 240  
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<210> 1639

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555383H1

<400> 1639

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 gtcacagcc aaaagtatca gaagaaagca gacgggcttc tgttgatatc ttcttaaagg 180  
 cagctgggta tcttgactgt gctgtaaggc atgttctcca cagttgcctg gcgaactcag 240  
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<210> 1640

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555384H1

<400> 1640

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 aagcaattag gaaagaggtt tttgattgaa gctggcgata tgnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnc tgggtgtggat gatagcgacg ccgttttaggt gttggggaaa gcgagggact 240  
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<210> 1641  
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 gggagtgtct tcctctgac ctcctcctac gaaacaggct aaagtatgct ctaacatata 180  
 gagaagttat tgccatcttg atgcagcgcc atgttcttgt tgatggcaag gttaggacag 240  
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 ttgggtataa cctcaaagtt gagtgtggtg tgaaatcgaa ccgtcanaaa tctacaaact 180  
 cctgatggca tgcnttttct ttgctgataa tctgnagctc ttggaccaca aaaatgatga 240  
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<210> 1643  
 <211> 257  
 <212> nucleic acid  
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catgctangg atgactncag aggacttcaa aggcatacanc ttgcatttaa gatttgccag 120  
 ttcttacaaa annaataaga nagttgnaca nancaaanca aaactttgta cctatgtagc 180  
 ttttccacag gacgctctcg tgtaagnag nattncctag gttcaagttg tggnatattgg 240  
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<210> 1647  
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 <213> Glycine max  
 <223> Clone ID: 700555393H1  
 <400> 1647

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 ttcaaaaaaa ataagaaagt taaaaaaaca aaacaaaact ttgtacctat gtagcttttc 180  
 acaggacgct ctcggtgtaa gtagtatttc ctaggttcaa gttgtggtat ttaaaatgta 240  
 tatatggcat ctacaagaac cataggttct 270

<210> 1648  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555394H1  
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 tataacactt gttggatggg gagctcaatt atctataatg gaacaagctt gtcttgatgc 180  
 tgaaaaagaa ggaatttctg tgaattgatg atctgaagac actattcctg ggataaggaa 240  
 acagtagagg cctcagttta caagaca 267

<210> 1649  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555396H1

<400> 1649

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aacgtcaagg ccaagatcca ggacaaggaa ggaattcccc nggancagca acgtctcatc 180  
ttcgccggaa agcancttcg aggacggccg taccctacgc cggactacaa catnccagaa 240  
ggagttcaac ccttncacct tgtcttcgtc tccgtggtgg 280

<210> 1650

<211> 308

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555402H1

<400> 1650

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ctccgatcct attcgctgcc caatccaatt cctctcacac caatctcngc cttcccttca 180  
ctgccatcgc cgccatttcc ggcggagtct ccttcctnta ctaccattcc tctcccaact 240  
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ttgggccg 308

<210> 1651

<211> 165

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555403H1

<400> 1651

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tctgatgcag tgctcgatgc gtgccttgaa caggaccctg acagc 165

<210> 1652  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555404H1

<400> 1652

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 tgagaagaaa atcaaactac aatcttccac caggaccctc tctnoctcac catcattaga 180  
 aactctaaac aactctataa aaagccacag cagacaatgg ccaagcttgc caaacctat 240  
 ggccccataa tgcgtttcac cataggccaa tcaaccacca tagtaatctc ntcatag 297

<210> 1653  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555405H1

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 agctcccaca tttgttgata aatagaagct ctaattgtct tcaagatctt gcattcccca 180  
 cctttagcct cactcaagtt ctttcccttt ttttagaaa agattcaaag ggtgaaacca 240  
 tcatcggttg ttagatcaag ctattttatc tcttaatcac tgtctgggac ctcttatctt 300  
 cttcaa 306

<210> 1654  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555407H1

<400> 1654

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 ttctgtgttc aacaatcaag tttcaagagg agaggagaag agatggatga ctgttgt 117

<210> 1655  
 <211> 306  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555408H1  
  
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 ncgataacaa tgttttgggg caagggttaa gatgacgacg taaaaaattt cccgagtcgt 180  
 gatgagcgga agaaactgag ggagtattac gagaaattca gggaattcat ggatcgtgta 240  
 gaacaaaaga cganccctc cccaccgcc aatgtaccgt ttacnaccaa agtccctcc 300  
 cccacc 306

<210> 1656  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555409H1  
  
 <400> 1656  
  
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 aagcatcagg attaaccctt cttcccatga tcttggcaag ggtgagcttg gggctccttc 120  
 cgagtaaccg accgaacttg anctccatga ggtcgtagct gtcgaattta ggtggttctt 180  
 tttctccttc atttcgtgat cgtgaggcaa agacctgact ctctgattca gagaaaggg 240  
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<210> 1657  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555410H1  
  
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 gattcaagac aaggaaggga tcccacctga ccagcagaga cttatctttg cgggtaaaca 180  
 acttgaggat ggtcgcaccc ttgccgatta caacatccaa aaggaatcaa ccctccatct 240  
 cgtgcttcgn ctcaggggtg gcatgcaaaa tctttgtcaa gactttgacc gggaagacca 300  
 tcacc 305

<210> 1658  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555411H1

<400> 1658

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 gatcgcaaga gccagtacct tgatgatatt gccatcttga ctggcaggta ctgtaatcag 180  
 agaagagggtt ggccttactt tggacaaagc tgggaaagag gttctcggat atgcctccaa 240  
 ggtggttctc ancagggatac aaccacaatt gttggtgatg gaagtaccca ggaagcagtg 300  
 a 301

<210> 1659  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555412H1

<400> 1659

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 gatcgcaaga gccagtacct tgatgatatt gccatcttga ctggaggtag tgtaatcaga 180  
 gaagagggtt ggccttactt ggacaaagct gggaaagagg ttctcggata tgcctccaag 240  
 gtggttctca ncaaggatac aaccacaatt gttggtgatg gaagtaccca ggaagcagtg 299



<210> 1660  
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 cagaatttca ttatcaagca aacatcgaat cagatggtcg atatgggctt caatatggta 180  
 caaatgagac aaacatgtca gactttttga attcagttgt taactgggat caagtaccct 240  
 ttgaggatcc caattgtcaa cagcagagct accccttggt taatgttaag gataacatat 300

<210> 1661  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555416H1  
  
 <400> 1661  
  
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 agttggttgc ccagttcgca aacaagttca acgttggtgct gatgatagaa ccattttggt 180  
 tacaacatat gaaggcacgc ataaccatcc actgccacct gctgctatgg ccatggcatc 240  
 aaccactaca gctgctgcta gcatgttgct ttctggatca tgtccagtgc agatggata 299

<210> 1662  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555419H1  
  
 <400> 1662  
  
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tcataacaga naaaaaaaga acatttcagc tctaagcctc taac 164

<210> 1663

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555420H1

<400> 1663

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gttcgggtcg gagctccagt ttcagcagct tggactcgtg tttgagtgat gattggggag 180

agcttccggt taaggaggac gattcagaag atatggtgtt gtacggcggt ctccgtgacg 240

caanaatgtg ggggtgggtcc atccctcgat gccggctcgc ccgagagcgt ctcgteggg 299

<210> 1664

<211> 131

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<223> Clone ID: 700555421H1

<400> 1664

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cancgacgct ctgcacaac aatttcnncg tccaagcgat gatctctctt ctatctacga 120

ccnnccttct c 131

<210> 1665

<211> 113

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555422H1

<400> 1665

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attcccctat tttcggcacg ccgttgttga atttccaatc tgtgattttn tnt 113

<210> 1666  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555423H1

<400> 1666

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 caaggactac cacagtgacc agaagttcac catcaccanc tactcaccga ctggagtggc 180  
 tattacagca tcaggaacna ggaaaagtga actgtttctg ggctgatgta agngaccagt 240  
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 tat 303

<210> 1667  
 <211> 302  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555424H1

<400> 1667

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 caatgtcatc gattctgcat atcgcaatgg tgctaagaaa ctgttggttt tgggttcctc 180  
 tngcatttac cccaaatttg caccacaacc gattccggaa gatgctttgc ttactggacc 240  
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 gg 302

<210> 1668  
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 <212> nucleic acid  
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<223> Clone ID: 700555425H1

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 ttgaagaaca agcagctgcc acagcataat gtgttcaaata gacaactatt ttcatttccc 240  
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 c 301

<210> 1669  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555427H1  
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 gggaggggtca gcatgaggaa gaccgtcacc aagcaggcct cctccggaag cccatggtac 180  
 ggcccagacc gcgtcaagta cttggggcca ttctctggcg agcccccgtc ctactcactg 240  
 gcgagttccc aggtgactac ggctgggaca ctgctgggct ttcggccgac ccagaaa 297

<210> 1670  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555428H1  
 <400> 1670

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 aatgaggtga atgacccatg gggttcagaga cttctctatg ccgttgagtc aaatgtggca 240  
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<210> 1671  
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<212> nucleic acid  
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 <223> Clone ID: 700555429H1  
 <400> 1671  
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 gcttctgggtg ttcacctcat tcagttcaat ggcaggcact tatgcctccg ccaaaggctg 180  
 tttctacttt ctctatggc cactgcagat caacaaggga aagttgaaga atttgaagat 240  
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<210> 1672  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555431H1  
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 nncacgct 128

<210> 1673  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555432H1  
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 cttatggatt cctcttgata gtgctgtgag agcaagaaat cttctctttg atgggagcaa 180  
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<210> 1674  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555433H1  
  
 <400> 1674  
  
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 gccgaccgcg ccaccacagc ctcgtngag g 151

<210> 1675  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555434H1  
  
 <400> 1675  
  
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 aagtctcttc ctacttgaag aaagtaggat acaaccctga caagattcct ttgtttccta 180  
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<210> 1676  
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 <212> nucleic acid  
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 <223> Clone ID: 700555435H1  
  
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 gctatgagtc aagcacagaa aagaacaaga ttatctgggg atacaaattt tagccggatt 180  
 atctgttcaa gaggggattc tgatcctttt gatggactct atgttggtgc atttggtcct 240

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<210> 1677  
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 <212> nucleic acid  
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 <223> Clone ID: 700555436H1  
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 tccaactgct atatccaaaa aaggtgatgg tggtagagccc tgtaatgatt tggtgcaaaa 180  
 ctatgctaac tgggtgggata atagattana taagaggaat gcaaaaagctc ccgatttcaa 240  
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<210> 1678  
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 <212> nucleic acid  
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 <223> Clone ID: 700555437H1  
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<210> 1679  
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 <213> Glycine max  
 <223> Clone ID: 700555438H1  
 <400> 1679

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 atactcactg ttcgaaaccc ggcgactgca agtggttagt aaaatgaagt ggccacaggg 180  
 acccataagg aaagttcatt ctttgataaa ctcaagaaga cattttcttg ggttgggaaca 240

aaagggtcag aggtcacatt cagagaagag taccacttga ctccanaaga tggttacctc 300

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<210> 1680

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555439H1

<400> 1680

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aattttggta gcatggcaat gccatgcgta cgatatgttc cctctccgaa tgaacactgg 120

ctatggtgcc cgtactccgg aggtgaaatg cgcaagttgg aggcttgcgtg tggaagcaca 180

caacatcttt ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat 240

ccatggcgaa caatatagat cagactccaa aacagttaac caacaagctt acttttatg 299

<210> 1681

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555440H1

<400> 1681

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agactaaaca gagttcgggtg acggttacgc tcagttacgg cgcgttgacg tgcgccgcgg 120

aattttctgc gactttgcta gcttctgctg tcgtcaaagc ctgcgttttg gccccggatc 180

tctaccggct gctattgatc aacacgcta ctgccaaagg agagagcaaa attcagagtg 240

aagacaagca acgtgatgca gagggagaag atggtaacga tgatgaaggc gacgatga 298

<210> 1682

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555441H1

<400> 1682



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 ttaggaatgc atcccaaaga tctctagctt ctcaattgaa ttcaccatgt tccatgggat 180  
 acccatcttt gtcattcttt aactcaaggt acatgtctcc acacattcca agtccaagca 240  
 atgcttcagt aagctatatg gggtcatcca gtcatacaaca acatcctctc cgttatagt 300

<210> 1683  
 <211> 299  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555442H1

<400> 1683

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 taccttcttg ccgtcaattc ccaagccgag agctcctctt cacgccgcaa agttcgtcgc 180  
 cggcggcgcg cacaactttc ggagactgtc gcgcaacctc attctctccg gaaacaaacg 240  
 cgcggtggng gcgaactcgg ctgcggagga gttcgacgtg atatcggtgc agagcgacg 299

<210> 1684  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555443H1

<400> 1684

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 ctgcgccgct gtatccgatg atgcttgaga gccccgaact gcgtcggctt ttcacagaaa 120  
 aagtatactc cataatcgcc atacagttgc tcgtaaccat cgtcgtcggc gccgtcgtcg 180  
 tcaccgtccg cccaatcagc gtcttcttcg ccaccaccgg cgccggattg gctctctaca 240  
 tcgtcctcat ctttgtcccc ttcacacat tgtgtccatt tatatactcc cag 293

<210> 1685  
 <211> 258

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555444H1

<400> 1685

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catcattctc ggtgacagtg ggggtggggaa gacatctttg atgaaccaat atgtgaataa 120  
gaagtttagt aatcagtaca aggcaaccat tggagcggat tttttaacca aagaagtgca 180  
attcgaagat aggcttttca ccttacagat ttgggataca gctggccaga aagattccaa 240  
agccttggag ttgctttc 258

<210> 1686  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555445H1

<400> 1686

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ttgttccaga tcccaccag atcgatgtca agctctttaa ccgctggagc ttcgaggata 120  
ttgaggttac tgacatttca ctggctgatt acattggagt tgcggcatcc aagcacgcca 180  
catatgttcc tcacaccgcc ggaaggact ccgtaagcg gttcaggaag gcgcagtgcc 240  
ccattgttga gaggctcacc aactctctca tgatgcacgg tagaaacaat ggcaa 295

<210> 1687  
<211> 266  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555446H1

<400> 1687

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aaccagtctg ttaatctggt tgaagtcaat ggacattggt ctaatcaagt tgattttctt 180  
cgatttgagg tgagcccata cactggaagg atccacttgt atacttgcatt tttgggtact 240

gataaaagac cacagccact tcatga

266

<210> 1688  
<211> 231  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555447H1  
  
<400> 1688

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tgggtcccgcc atcatccaat ggaatgccac ctctctact gagaaccatg cccccancac 120  
ctccgcctaa attttctgat ccatttgaag ttaaagtaca caacaagaac aagactttgc 180  
ttaagacaaa atctgatgca gttcctgata cattgggtcaa cctaattggaa t 231

<210> 1689  
<211> 296  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555448H1  
  
<400> 1689

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tcctcctaga agtgtggaag agagaaaggt ggaatatgat cgggcacgag cacgcatttt 120  
tagtagctcc agaagttgtg attcagatga tactctgtcc cagacttcaa ctgatgagaa 180  
aaattctctt ataaacaagg atgagaatga aactagcaag acccctgtgg tttattcaga 240  
acaatgctct attggtaggg atattaattc tactcgagtt gccatcttga gagata 296

<210> 1690  
<211> 173  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555449H1  
  
<400> 1690

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acccaatgg aagncatcaa gtgaattgca atcagaagan aatnaagtct ccaatgagan 120

aaataagaaa agaaagctgn aaacaccggc gcagttaaag ccttgaggga ttt 173

<210> 1691  
 <211> 101  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555450H1  
 <400> 1691

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 cgttaacatc cactctatta agcaaatgtn ctctagtag t 101

<210> 1692  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555452H1  
 <400> 1692

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 cccataacctc ctgctatctg cagtgggaagg cgtgaaaagt gtggaattga gaaggagaac 180  
 aactttaagc agcccggaaga gagataccga tcttgggcac ctgacaggca agatagattt 240  
 aatcgccgat gggttgatgc tttatctgac ccacgggtca cccatgaaat ccgcagt 297

<210> 1693  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555453H1  
 <400> 1693

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 ttgaagtata aagatggcag agacattcct attcacctcg gagtcagtga acgagggaca 120  
 ccctgataag ctctgcgacc aaatctccga tgctgtcctc gactntgnat cgaacaggac 180  
 ccagacagca aggttgctcg cgaaacatgc accaagacca acttggtcat ggtcttcgga 240

gagatcacca ccaaggccaa cgttgactac gagaagatcg tgcgtgacac ctgcagg 297

<210> 1694  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555454H1  
 <400> 1694

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 gnatgagaac gaagatgaag tgagggagat ataagtactt ctggttttta tgttctgtta 180  
 tttatcttac tgttgagtgt gttattacct aatanataaa tttgggggtt atgatgtgag 240  
 agtgaagcat gaactnattg tgtagcttca cttaatttgt gtgattatgc cagag 295

<210> 1695  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555456H1  
 <400> 1695

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 aacatcaaac acgactctcg cctcgaaggc ctcatcaaga tggcagatct cactattaat 180  
 ctggctgcga ttgcatcccg cggattacaa cactcgccct ctcgacacca ttacagcaa 240  
 tttcatcgac gcgctccccg tggtgaaata tgttcc 276

<210> 1696  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555457H1  
 <400> 1696

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catggctgcc tccgtctcca ctgtcggagc tgtcaacaga gctcttttga acctgaatgg 120  
 ttctggagct ggagcttcag ctcccagttc agccttcttt gggaccagct tgaagaaggt 180  
 tattgcctca aggggtcccca acagcaaggt ttccgggtgga agcttcaaga ttgttgctgt 240  
 agaagagaag aaagagattg aagagaccca gcagaccgac aaggacagat ggaagg 296

<210> 1697  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555460H1  
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 ggccgggtatc caggtcggaa atgcttgctg ggagctctac tgtcttgagc acggcatcgg 180  
 gcccgatggg caaatgccaa gtgacaaaac agttggcgga ggtgatgatg ctttcaacac 240  
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<210> 1698  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555461H1  
 <400> 1698

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 tcctgtctgt aaaattcctt tcantcgtcg agagggtngc cntgctccgc anatggacaa 180  
 cttggtcagn ntatatntag acatggaagt tcttcaggag ttagtacatt tgtaaccag 240  
 aatgccctg tnactagctt atcanatgga gaaaaggnat gtgaggggtg 290

<210> 1699  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555462H1

<400> 1699

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aaaactaggg ttcagtccag ctgagatagt aattgtgaac cctaataaga agacttccac 180  
tggaatgaa gtagggtagc gtttggtttc aaatgcagcg gttcatcctc ttctcacaga 240  
tgatgattac cctcaaacac gtggtgcttt caccagttac aatgtttggg ttac 294

<210> 1700

<211> 97

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555463H1

<400> 1700

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tagggtttct ntctccacta gggttcccaa ttcctct 97

<210> 1701

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555465H1

<400> 1701

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nnnnnnnnnn nnnaagctac cggcgggcac cgtccacggt ggtgggagag cagaagaagg 180  
ttattcccga gctacgtagg acggaatctg ggcgtctcgg ggagatggaa aagttctccc 240  
actatgttgc aaggcaaagc ggggtgaaga tgctgatgag gttccagagc tatgcatat 299

<210> 1702

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555466H1

<400> 1702

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gtcgtctctc agtacatcac tgtccaaata atgcagtcac cacagcctaa tgatcccaac 120  
atgaaaagtt ctcaagcctt gaccaatttc cttccattaa tgattgggta ctttgctctc 180  
tcagttcctt ctgggtcttag cctttactgg ttaacaaata atatattgag catgcacaac 240  
aagtatgggt tcnaaagtta ggangtgtaa aaatcctgtg angcaagtcc cagatg 296

<210> 1703

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555467H1

<400> 1703

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gtgacagaat tctctgggct aagatccact tcatgtgtga catatgctaa cgatgctaga 180  
gaatcttcct tttttgatct ttagcttcc caactcactc ccaagaccaa tggatcatcc 240  
aactcctgtg aaggggagag acagtggcca agttgaagggt ggcatcaatg gtttcgg 297

<210> 1704

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555468H1

<400> 1704

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ttaggaatgc atcccaaaga tctctagctt ctcaattgaa ttcacatgt tccatgggat 180  
acccatcttt gtcattctctt aactcaagggt acatgtctcc acacattcca agtccaagca 240  
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 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
  
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 ttaggccctt ctgtcttcgc aaccgttagc actcnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnctcat tcaagacagg gctgtctttg ctgcccctgc cnccatcatc 240  
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<210> 1706  
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 <223> Clone ID: 700555470H1  
  
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 aattttatca cattaattct tgatcttttt ccacatcata tcttcatttt tttgggtccac 180  
 atgctgtagc ttttaggcaa taatggttcg atctgatcag atgagttgtg ttccccacag 240  
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<210> 1707  
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 <212> nucleic acid  
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 <223> Clone ID: 700555471H1  
  
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taacattcca atcccaactt tgcaactccc ccttcgcca aacgacatca ccgcagcgtc 180  
gtctcctatc tgcgctgcat acgacaacta ccttcgtctc cctnagctca gagccctctg 240  
ggcctccaag gacttcccca attggggcca acgagcccat cttaaagccc gctta 295

<210> 1708  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555473H1  
  
<400> 1708

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aagtgggaaa tttgggtgat gatgttgaag tccttctcaa cttggaagta attggttaat 180  
caagctgtgc ctgaattatn tcattaattg tgaatcttat ctntccctg tngntacac 240  
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<210> 1709  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555474H1  
  
<400> 1709

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ctattctaag actgtctcnc ctctctcatt catgtcccaa ctgtacgacg gaggacaggt 180  
tgcgtaactg ocancaacct ttgcgcgcac ggtgggcgtg gtgctttggc cttctgaagg 240  
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<210> 1710  
<211> 286  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555476H1

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 ccctgatgaa cccatcatca gcaatgcac ttgcaccact aactgccttg caccctttgt 180  
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<210> 1711  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555477H1

<400> 1711  
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 gccgcctact tccaacgctc tcaatttgaa gcacgttctt cgcccgcgtc gagtcgcgcc 180  
 tagccgaatc tttgtcaaat gcgccttcgc gtctgagccc gncagctacg gggtcggctc 240  
 gagccgagcc gattggcaga gtcctgcgc catcttagcc agcaaggctc 290

<210> 1712  
 <211> 90  
 <212> nucleic acid  
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 <223> Clone ID: 700555479H1

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<210> 1713  
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 <212> nucleic acid  
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 aattttatca cattaattct tgatcttttt ccacatcata tcttcatttt tttgggtccac 180  
 atgctgtagc ttttaggcaa taatggttcg atctgatcag atgagttgtg ttccccacag 240  
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<210> 1714  
 <211> 165  
 <212> nucleic acid  
 <213> Glycine max  
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<400> 1714  
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 tattcttgct gctgatgagt caacagggac aattggcaag cgttt 165

<210> 1715  
 <211> 138  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555482H1

<400> 1715  
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 ggtgtacggt aacctggt 138

<210> 1716  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555483H1

<400> 1716

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catggctgcc tccgtctcca ctgtcggagc tgtcaacaga gctcttttga acctgaatgg 120  
gtctggacct ggggtttcag ctcccagttc atccttcttt gggagcagct tgaagaaggt 180  
tattggctca aggggtcccca acacaaagat ttcctctgga agcttcaaga ttgttgctgt 240  
agaagagaag aaagagattg aagagaccca gcagaccgac aaggacagat g 291

<210> 1717  
<211> 91  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555484H1  
<400> 1717

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aagccctcaa tttccgcatc gaaancgagn c 91

<210> 1718  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555485H1  
<400> 1718

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gcagccacca ctccgttcg tggctaccnn nnnnnnnnnn nnnnnnnnnn nnetgacctt 180  
cacttacgtg agccttgggc taaaaggaaa cgctccaaac gaccgcgttt tgagacggag 240  
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<210> 1719  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555487H1  
<400> 1719

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 aagagaaaag atagtgcac aacagtagag agacgagttt attgctctgc cgctgctcaa 180  
 tcaccaccac cagnatggcc aggaacagca aangggcagn cttctgattt cnagacatgg 240  
 gatgggcaaa aacctattcc gtcttaggat ctaggggttc aa 282

<210> 1720  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555488H1  
 <400> 1720

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 tccagatgca agcattgtgc gctgggcatc tggagttgtg agaactataa ctgttccagt 120  
 agtcccagcg cacaatgctt gcatatcagg gcacatcttc aactgttaac tatgatgcat 180  
 ccttagctaa tgcagtttcc aagacaaaca tacttinnncg ncgaagggtg tctatttgaa 240  
 cttcctgata ccattaaaac aataaccaa gcatgtgaga aagcacggtc gaa 293

<210> 1721  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555494H1  
 <400> 1721

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 tcaattatca gaggggaagt acttttgatc gatgctttta catttatgga ggtccagaac 180  
 aattggagga actggagggt tgtctagtca ttatgcattg ttatttaacc gaagaaagca 240  
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<210> 1722  
 <211> 287

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555496H1

<400> 1722

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 ggggggtgac gctgataccg ggggacggaa ttgggcctct ggtgactcat gcgggtggagc 180  
 aggtgatgga ggcgatgcac gccccatat acttcgagaa gtacgatgtg cacggggaca 240  
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<210> 1723  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555502H1

<400> 1723

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 ggaccccaga catgcttctg agacnttgca cttcgttgac gntatggggnn ctggnacgcc 180  
 ccttcccga actncaangg cgtggnntnt atgacgnctt ntagggagct tcctcaaagt 240  
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<210> 1724  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555503H1

<400> 1724

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 caagtccatg gctggnttcc ccaccaggaa gaccaacaat gacattacct ccattgctag 180  
 caacggtgga agagtgcaat gcatgcaggt gtggccacca gttggcaaga agaagtttga 240

gactctttcc tacctgccag accttgatga tgcacaattg gcaa 284

<210> 1725  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555504H1

<400> 1725

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tttgacacca aacaagtgtc gtcaagttca agtggcagga gaaggcatgt ggggggttct 180  
ggagttaggt gcatggcggt gggagaagct gcaaccactg agactaagaa gagaagtgga 240  
tatgagcttc aaacactcac taactggttg ctgaagcagg agc 283

<210> 1726  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555505H1

<400> 1726

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ccnccacac gccgcatcat cgcttcgcca ccacacgccg cggttgagat gttcccgccg 120  
ccgacgcaga cgaccctccc ctctctgccg gatctcctcc tcacggccct ctccgtctgc 180  
ttcctagtct cctcctcgaa gcccacatc ggtggttcca cccgctgccc cttcccgct 240  
cgattcctca aaatccccgc catgtccctc acaacgataa ca 282

<210> 1727  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555507H1

<400> 1727

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 gggaggaggc gaggagaagc gacaccagat gatgcagaac ctcttcggag atcaatcgga 180  
 ggaggaggaa gagctcgacg tcgattccga gcacgaatcg aaccgcgaac aaaattnccc 240  
 ctccgacgag ggggaggggg aggggtgtggg ggagcaggag gg 282

<210> 1728  
 <211> 264  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555508H1

<400> 1728

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 cccatcatga aatgggcgct gctggtgcag aaaagaattc tgaatcctta tctttcagtg 120  
 gaacagccac atccaggcaa gctgctcatg gaatgcacgg tagaggcatc catcgtaaca 180  
 aaggaagatc aaacaatcaa gatgctgatg gttggcgaaa ganatctgtg gttgaagatt 240  
 cttcagcctc atctggtgca cagt 264

<210> 1729  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555509H1

<400> 1729

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 tcattctaaca caatgtcatc tgctggtgct tcagaagctg tattcttgtg ttctcaatgc 120  
 gaaaggaagg cttgcagagt ttgctgtgct gggagggggg catttctgct tgtagganat 180  
 aattcaagag aggtccaagt tgactttcct gtaaactcgtt tattagctca ggatggtata 240  
 atttgtaaac ggtgctgccca ggatattgtg cttcatgcat tga 283

<210> 1730  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555510H1

<400> 1730

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 accacttgca gctaaaacat tgacctcctg tgatcatttg aaggaatgtg tagtcgtgaa 180  
 tcaattgtgt tgctgtttgc tggaaagtgg tcaactctgag ttttagatgc tattgtcttt 240  
 gctgtgaagt tatttttattt ggtcctgatt gtatttcagg g 281

<210> 1731

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555511H1

<400> 1731

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 attgcaaagg ccaactcggt ttccgcttcg actcctacgg tccccgcgcg cgtgacaagg 180  
 acgagctcgt tctcatggat ccccatggcc gttctcttct cactctccgc cgaaagaaac 240  
 cgagtcttca tcaacgctgg gaaggcttca aaggggagag aa 282

<210> 1732

<211> 250

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555512H1

<400> 1732

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 gattnaccaa tatgtctcat caatatcatg tcagcttgga cataaaatgg taaatgctta 120  
 gacgtagaat cgtgtatacc ttgatttatt ctagttaata actcaatttt attgtttata 180  
 anannannaa annanaanan aannaannaa nnanaanaag gggggnnccc ccncanatgc 240  
 cccccccccc 250

<210> 1733  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555514H1  
 <400> 1733  
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 tggaggaggc ggcgaacccg atacgaatgg tgtctggcgt ggaggcggag gtggttcggg 180  
 tgatcgggga gtgccggcgt gcgttgaagt ttncataggtt cgtgagcagg ttcgggaaga 240  
 gttaccaaen cgaggaagag atgaangaga ggtacgagat att 283

<210> 1734  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555515H1  
 <400> 1734  
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 ggtcagaaat taaggttatc atttctgncg aattcctaag aagtcaacat gaagcagaac 120  
 aatgtaagtg gtcattgcag tttgggtgagg tagaagtgcc agcagtgatc attgcaaaaag 180  
 gtgttctttg ttgtcataca cctccacaca aggctgggat ggtacctttc tatgtaactt 240  
 gttccaatag gtttagcatgt agtgaagtga gagaatttga tttcca 286

<210> 1735  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555516H1  
 <400> 1735  
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 cattctacgc tctcccaaan gccagtctct naccgaaga gcgaaccata atggaagagt 120

aaattaccgg aaaccgaata accgtttctc cgtgaaagcc tccgcnaaag agattgcctt 180  
 tgaccagcat tcccgtctctg ctatgcaggn nggcattgac aagctcgcng acnctggttg 240  
 gctcantctt gggcccagaa gnangaatgt tgtgtttgat gantttgg 288

<210> 1736  
 <211> 148  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555517H1  
 <400> 1736

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 ntcactcncg tcttctcnc tntngcntct agaattgaaa agttctnctt cctgccanag 120  
 tntttgacac cctnttccan cctctaga 148

<210> 1737  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555518H1  
 <400> 1737

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 aaatccaatc caatatcaaa natgagtcgt catcccgagg ttaagtgggc tcaganactt 120  
 gacaaggtct atatcacggt gcaattggct gattcaaaaa atgccaaggt ggatcttaca 180  
 ccagatggta tttttacctt ctctggtagt gctgggtctg aagaccatca gtatgagcta 240  
 aaactggagc tctttgacaa ggttaatgta gaggagagca aa 282

<210> 1738  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555519H1  
 <400> 1738

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atcattccct ccgctctcact ctcttctctt tctcgctcct tcttctcact ctcatnctct 120  
 tcttccaaac tccaatgctt gcgctctctt cctcgatatt cgcacctctt tctcaatcag 180  
 cgaagangga ggttcgcgtt tcgagtggag gatacgganc tgtgtcggca ccgaagtcag 240  
 ttgcgtctga tcctgatcag ttgaagagcg ccanagaaga 280

<210> 1739  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555521H1

<400> 1739

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 ggtatagatg gagaaaatac gggcagaaag tagtgaaggc caatccnaat ccaaggagtt 180  
 actacaagtg tacacaccca ggatgtccag tgaggaagca tgtggaaaga gcttcacatg 240  
 acctaagggc tgtgatcaca acctatgagg ggaagcac 278

<210> 1740  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555522H1

<400> 1740

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 ccacaagagg ggcattctggg ccatcaaggc caaaaacggc ggtgttttgc ccctccacga 180  
 tccaagccc aaacccgagg ccccgccca gaagccgcc aagttctacc cggccgatga 240  
 cgtgaagaag cccctcgta acaagcaca gcccaagccc gc 282

<210> 1741  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555523H1

<400> 1741

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cgacgcagat gtctcaaagc aatccagcag atggtgcagt tcatccgccg ggaagctgag 120  
gaaaaggcca acgagatctc tgtctccgcc gaagaggaat tcaatatcga gaagctgcag 180  
ttggtcgaag ccgacaagaa gaagatcagg caagaatacg aacgcaaaga gcgccaagtt 240  
gaaattcgca agaagattga gtactcgatg cagctaaatg c 281

<210> 1742

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555525H1

<400> 1742

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cccaccgccc cncgcgcgcg ctccccacca tccgcgcgcg aattccccgc acaaagaaag 180  
aggcaacggt ggagactgtg cgggagcagc tcgagaactg ttacctctc gccggcatca 240  
actacaaggg cttcacggtg aagcagttcc aggagcttcg aaa 283

<210> 1743

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555526H1

<400> 1743

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gacggcgatg gttgtattac tactaaggaa cttgggactg tgatgcggtc actagggcaa 180  
aaccaactg aggcagaact gcaggatatg attaatgagg ttgatgctga tggcaatgga 240  
accatcgact tcccagagtt cctcaacctg at 272

<210> 1744  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 70055527H1  
 <400> 1744

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 ccccggcgac tgcgggttcc cggatgatcg tcccttcaag gaccgccaag actattttcta 180  
 caagcaaggg cgcgacgagt tcttcaagtc cgcacatcaa aagtaccagt caacgggtctt 240  
 ccgcaccaac atgcncgnag gccccttcct cgcccccgac 280

<210> 1745  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 70055528H1  
 <400> 1745

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 ctacagccaa tacactgtgg catggaaaag atgttaggga tggagctgtg tctacacagt 120  
 tggaagacat ggatgagttg aaaataagca gtggagcagg actgtcagct ggagagtggg 180  
 ctgatagcct taccaacatt agtgtggggg atctactttc aggagtgtcc caggatcttg 240  
 ataactgcat cgatcctcct attgcagaga attttcatga ta 282

<210> 1746  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 70055529H1  
 <400> 1746

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<400> 1749  
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 gatgcctgcc tggagcaaga ccctgaaagc aaggttgcct gtgagacatg caccaagacc 180  
 aacttgggtca tggatatttg agagatcacc acaaagcca atatngacta tgagaagatt 240  
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<210> 1750  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555534H1

<400> 1750  
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 aaccgtccaa gacgttcagg ttgctccgcc tcaggccggc gaggtccgtg tccaaatcct 180  
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<210> 1751  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555537H1

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<210> 1752  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555538H1  
  
 <400> 1752  
  
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 ctggcaacat ggaaatgcct gaggaggaag agtttgagag tccgatcctg aagggtgggg 180  
 aggagaagga nattgggaaa atggggctga agaagaaatt gctcaaggaa ggtgaagggt 240  
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<210> 1753  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555539H1  
  
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 ggggaanccn ctaccactng ncnctgant tacaagcttg gnggcattga caancgtgtt 180  
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<210> 1754  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555540H1  
  
 <400> 1754  
  
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 ttcacaaatc tgcgcgaacc tctcantctc atttctctgag aattctctct cactgcgctg 180

cgctgcgttt tgtctccgcc accgtcgtcg ttccggcttc tcaaaagc 228

<210> 1755  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555542H1

<400> 1755

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ccgaaagtga agcattaggg gaaccggaat tagaaaaaag agaaacactt gaaatcatca 180  
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attgcccacc tcttccacca aaaccactga gccggtta 278

<210> 1756  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555543H1

<400> 1756

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ttgttgaggg ttgaaatata agttgccgcc tcaagtgtgt gttaattcta aatttcacaa 180  
gcaagtgtat ttttgagta ttgtattata tgaccaaata ttttagtggt ttaggactag 240  
atattttgct tctggtggca atttttctct tctccttc 278

<210> 1757  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555544H1

<400> 1757

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 gantcaagca gagattggtt ctgctcttaa gaagcttttt gatgatggtg tgggaagcg 240  
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<210> 1758  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555545H1  
 <400> 1758

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 catcgttga tggattcagt aaagtgtgtg atgctgttga agtagctgga aaaaatgtca 120  
 tgtcaacatc atcaactgtg acaactgagc ttgtcgatca cagatatgga gaacaagcag 180  
 ctgaagcaac aagtgaagg tttagtgtgt ctggatcatgc tttgggtact gcatgggctg 240  
 cttttaagat taggaaggct ctcaacccta agagtgttc 279

<210> 1759  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555546H1  
 <400> 1759

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 attttatgtt ttgtaaattt cttactctta acttggttct tcccttaaaa acatgggtct 120  
 ttttttattt taagctttat aaaanaatat ttacttccaa tctctatatt ttagtctact 180  
 tttaagaata anaatgtatt cnacattact tggtattatc tcaaagtgtc atnaattaat 240  
 ggtaactctt gtttganttt tctccagctt atcgtgaga 279

<210> 1760  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555547H1

<400> 1760

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 atttctctct ctcccggtga gtttagaagt gtgcgttccg gagccttttn gctttccatt 180  
 tctctctctc ccgtgctttc tagagttggg gctctgggag gagtaacgat tcagcggttg 240  
 aattgcgaga atggaaagcg ttttagagag tgtcatgggg 280

<210> 1761

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555548H1

<400> 1761

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 ttgatgtact tcttgagagg aagtcttctt tggcaggggc ttaaagcggg aacaaagaaa 120  
 cagaagtacg agaaaatcag tgaaaaaaag gtttctacct cgattgaagc cttgtgtcga 180  
 ggttatccaa cagaatttgc atcttacttc cattactgcc gatcattgag gtttgatgat 240  
 aagccagatt atgcttatct caaaggatat tccgtgactt gt 282

<210> 1762

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555549H1

<400> 1762

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 ggaactgagg tgagtgtgga tgaaattcga tnnnnnnnnn nnnnnnnnnn ntactatccc 180  
 ccttcccttc atggagcctt ggttggnctc cctgagcctg atcctacaga gcaagctctt 240  
 gtttatcagg gtggatatgg aggagattat ggtggac 277

<210> 1763  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555550H1  
 <400> 1763  
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 ttcccactgt ttattgagaa caactgcaga acatggcaca gattttggct ccctctacgc 120  
 aatggcagat gagaatctca aaatcctctc ccaatgcaag tcccattaca tcaaacatgt 180  
 ggagttcttt attgtggaaa caaaataaga aagtttcacc cacaagttct gctaaattta 240  
 gagtgatggc aattaagtct gacaatagca tcatcaac 278

<210> 1764  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555551H1  
 <400> 1764  
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 aaggatttgc catctgaaaa catgaaagaa gagattacat catgggagga acgtgttaaa 120  
 aaacttcttg aactgacacc accaaaaggg acagaatttc ttcacaaaat tgagcatata 180  
 ttggaacgag aaaaaaattg ggtgtggtgg aaacgtgatg gctgcctccc atatgaaaaa 240  
 caacgtatag agaagaaagc agtaccagat gggccc 276

<210> 1765  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555552H1  
 <400> 1765  
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 aagaaaagac tatcttaact tcgttcgttt ggaacaagag tttgtagaga atctctcgat 120

gatggcaaac agttgtgttt caatggacaa taataatatc ctgggtcttc tcaagcttcg 180  
aattaaaaga ggcgttaatc ttgcaattcg cgatgctcgt accagcgatc cgtatgtcgt 240  
cgtcaacatg ggtgatcaga agctgaagac tcg 273

<210> 1766  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555553H1

<400> 1766

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tcgccattac gaagacatac gcgatcttct gtgatattca gctcggattg aacctctctg 120  
acatgatctc cgggtggctcc cccgtcgggt ccgtcgctc caagttccca aggatcggaa 180  
tcctccctcg tgatgctaag gatgagtcga tgatgaagtg gtttgagggtg ccgggggttca 240  
acatcattca cgcgataaac gcgtgggagg aggac 275

<210> 1767  
<211> 163  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555555H1

<400> 1767

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catgtgacac tcactagatt ttgtagtac tgtattatgt atcaatatta ttctgtacca 120  
atcctcatgt aatattgcaa tctaatagtt gtgccattta aaa 163

<210> 1768  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555556H1

<400> 1768

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cccatttttg atttgggtgac aacatatttc agcttaataa aagaggctgg ataagaaggc 120  
 aggtctattg gatttcaaaa cagatattac agttgggtgat ggaagatgca attgatgatt 180  
 ggcttctgag acagattcat tggctccgga gagaggaaac tgtttcccaa gggattcggc 240  
 gggccaaga tgcctgtgg cccgggtgta cattt 275

<210> 1769  
 <211> 189  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555557H1

<400> 1769

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 tattatacct cttccatctc cataacatcc acttggtgaaa aaaacccatt aatatatctc 120  
 acacacacat gtatctctga gctccaatcc aatccaagac cacaccttgt cgcgtcggac 180  
 gaaccttgg 189

<210> 1770  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555558H1

<400> 1770

actagttcta gaatgtntga ngagcggcct atatggtcca aaaattcgtc taccgaactc 60  
 ttgcttgata agggctaagc ttttcgcaca gcatgctcng aaggcttcta tctagaattt 120  
 cntactactt ttctagtgga ccatttctga ggttttggat caaganagga tatgatccac 180  
 gcaaagatct taattctcga atttatcana gaattgatta tcgagtacct gttccattac 240  
 gaattactgt gatgctcatc agccaataaa tc 272

<210> 1771  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555559H1



<400> 1771  
aaggaactga gcagggagtt agggtttagag ccattgcagg ttaagtnttg gtttcagnnc 60  
aagcgtattc agatgaagac acagcacgag cggcatgaga atacaaatct cagaaccgaa 120  
aacgagaagc ttcgagcaga taatatgagg tatagggagg ctcttagcaa tgctcgtgtc 180  
ctaattgtgg tggaccaacc gctataggag anatgtcatt cgatgaacat cacttgaggc 240  
ttgnaaacgc aaggctaaga gaagagg 267

<210> 1772  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555560H1

<400> 1772  
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aatggaaaga accganaact aattcttcat gggcttacag gttatgccca gccagggaga 120  
cttttggtta taattggtcc ttctggcagt ggcaaacca cacttcttga tgcttttagca 180  
ggaagattga catcaaact aaagcaaaca gggaagattc taatcaatgg ccacaaacaa 240  
gaatggctta tggaacatca ggctatgtaa cacaag 276

<210> 1773  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555561H1

<400> 1773  
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gcctcggcg tncgatatc gtgttcgatg acttctccac cgacttcagc gttccccc 120  
ccctccatg gactcgtct tcaacactac tgatggggca nccttcccct ccgatctnga 180  
attcggcatg gatttcaaca acaacaacga agagtggagg gaaaactaag aagggttgcta 240  
gtattagttt gttgggtttg ttttcttta tcatgctg 278

<210> 1774  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555562H1

<400> 1774

attctacatt gctccagctt ttatggacaa gcttggtgtt cacatctcca agaacttcat 60  
gaccctgccc aacatcaggt cgctctcatt cttggtatct ggggaggcaa gggacaagga 120  
aaatctttcc aatgtgagct tgtctttgcc aagatgggaa tcaaccccat catgatgagt 180  
gctggagagt tggaaagtgg aaatgcagga gagccagcaa aactgatcag gcagagatac 240  
cgtgaagctg cagacatgat caagaaggga aagatgtg 278

<210> 1775  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555563H1

<400> 1775

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atttatactt gcattaacta ctttggataa tttggtgaaa tatctcccat tcataaagcc 120  
aattgttaat ataaaggcat tgaaaacagt gttggaagct tacctccctc aactcgact 180  
gattattttc ttggcttgtt gcccaagttg cttctgtttt tgtctaaatt tgaaggcatt 240  
ccaactgana gtcatgcagt taggggctgc atctggaaa 279

<210> 1776  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555564H1

<400> 1776

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aatgtctttt ctttaacccc aggttattgc tgaatatctt caaaaaatcg atccaaaatc 120  
agatggcgca aagagggatt gggttgctat ttatgatgaa tgtgcctctg tcttatatca 180

ggagattgat tacaccaagg aggctgctaa tgcagaattg tttgcaagta actttaagaa 240  
 catggattat gtgaaagttc ctacnatcta ctgggat 277

<210> 1777  
 <211> 256  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555565H1  
 <400> 1777

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 ttgtagtgan cagatataat ggctgtngaa aggtccggaa ttgnanana tgttacggaa 120  
 ttgnttggtg aannccatt agtatntctn aatanacttg cggatggntg tgttgcccgg 180  
 gtngctgcta nactggngtn gatggagcna tgctctagt tgaaggacag gnttgggtat 240  
 agtatgattg ctgatg 256

<210> 1778  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555566H1  
 <400> 1778

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 gcaaacaagc tccgccagca agcaccagag ggnnnnnnnn nnnnnnnnnn nnnnnnnnat 120  
 gcccaagtgt gacatatgcc agganatngt tggttatttc ttctgtttag aggatcgngc 180  
 tttgctatgt aggaattgtg atgtatctat acatacagca aatgcctgtg tctctgatca 240  
 tcaaagggtt ttgcttactg gtgtgagagt aggcct 276

<210> 1779  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555567H1  
 <400> 1779

ggtgagtota gtcaatttct ttttaaactc tgcgatgcta aatttagcgg tgtcactcac 60  
 ctgaatttnt ctgttttgtg atctttgggg cttttatcaa tgccacatct ctttctttct 120  
 ctcttgatct cattttgtga tctttggggc ctttatcaat gccacaccta aatttagcaa 180  
 tgtcactcac ctgaaattaa gtgtgtattc tttcttttgc gaattttttn tcagagttga 240  
 tttgacgtaa cccaaaatcg tgtttaatgt tt 272

<210> 1780  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555568H1

<400> 1780

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 ttcctccatg aattcaattt ctttaggttc cttcatcctc acaccatgca agttccgccc 120  
 ttttcttcaa accaaacacc aacctatatt ccacacactc tccccaatct cccctgacac 180  
 aaaaaccacac ttttcttcga gccacagact cgaacatcga cgccccatt tccctccccg 240  
 agggcgcgtc cttcgtttcc atcccagaaa tca 273

<210> 1781  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555569H1

<400> 1781

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 ctccctccct cagcaaccgc caattcctga accctaagct agcgccatgg ctgtcgtttc 120  
 gcgaagtgcg acgacctata cgcgccacta cttaatacga cagagtttg ataggaaaac 180  
 gaaaacctgc gttgccaata atagtttgtg ttactctgct nannaggctc ctccaccgca 240  
 gaggattgtt ggtggccgta gagtgattgt tg 272

<210> 1782  
 <211> 272

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555570H1

<400> 1782

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taagacatgg acggatcaaa ggcccatgga gtccggagga ggacgaggct ctgcagaagc 120  
tggtggagaa acacgggccc aggaactggt ctctgatcag caagtccatc ccgggccggt 180  
ccggcaagtc ctgcaggctc cgggtggtgca accagctgtc cccccagggtg gagcaccggg 240  
ccttcacggc cgaagaggac gacaccataa tt 272

<210> 1783  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555571H1

<400> 1783

gaagattcag caagcaagac ccctcatttc cgtgggtaac aaggctgcct ctctatcttc 60  
ccccgtgacc accagcgtcg gcgttcggtt tcggctggac aatttggggc cgcaaccggg 120  
ttcgaggaag agggctaaga gaaagggtag aggaatatcc gcagggcaag gggcaagttg 180  
tggttttggg atgagaggtc agaaatctcg atctggacct ggcgtagga agggtttcga 240  
aggtggccag atgccgcttt atcgccgaat c 271

<210> 1784  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555572H1

<400> 1784

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caatggattc tagagaagca atgaatcaag ttacaaatac agtcacgctg ttaaccataa 120  
aggtcatgct gatatttcat ccagggatag atttgcaagg agtaatggta ttcccatttc 180  
tataagatat aagaagttgg gcaacgagga aataagcatg caaggagatc accaccaaag 240

agataggttg caacagacat ttagggaacc acctt

275

<210> 1785  
<211> 243  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555573H1

<400> 1785

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gcaagccgat ttcggaagat tggaaatcga gctggcggag gttgaaatgc ccggcctcat 120  
gtcctcccgc accgagttcg gccctctca acccttcaag ggcgctagga tcaccggctc 180  
cctccacatg accatccaaa ncgccgtcct catcgagacc ctcaccgccc tcgggccgag 240  
gtc 243

<210> 1786  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555574H1

<400> 1786

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aaatgctttc ttcgcattct cgctccgtac tccgtcttct cgttccgttc ggcacgcta 120  
atttctctcc gtcgaggtag aaaatagtag ttccaggagac ttttaatgct agcttaagag 180  
tatgggcctt tgattttact atgttgagat actttatgag aagtatagag taaacagcag 240  
tttggtttag agggtgaaaa gttcacaaa t 271

<210> 1787  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555575H1

<400> 1787

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gttcgcttca caagcttcga atccaattcc tcagtaacat ctgcanaagt cttctccttc 120  
 accatgccac ncnagcctt tagactatgg gtcaataaat gaaaacgtga agaagagtca 180  
 atatgctgtc agaggtgaat tataccttcg agcttctgag cttcagaaag agggcaaaaa 240  
 gattatattg actaatgttg gcaacccaca tg 272

<210> 1788  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555576H1  
 <400> 1788

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 acgtggtact tctgaacgtg attttcaaca tcctcaacaa gaagatctac aattacttcc 120  
 cctatccata cttcgtatcg gtaatccatt tattcgtggg agtggcgtac tgtttggtga 180  
 gctgggcccgt gggccttcca aagcgtgctc ctatagactc caacctactg aagttgctca 240  
 ttccagtggc tgtgtgtcat gcattaggcc atg 273

<210> 1789  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555577H1  
 <400> 1789

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 gtctgctgtt atntacaagg attgggtttt caccgatcaa gcattgccta atgatcttgt 120  
 caagagagga gttgctgtta aggatccatc tgctcccat ggagttcgac ttttgatcga 180  
 ggactatcct tatgcntctg atgggctaga gatatgggat gctatcaagt cttgggtgga 240  
 agaatatgtc tcattctact acaagtcaga tgg 273

<210> 1790  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555578H1

<400> 1790

gccttcctct ctgcagagtg cagagctttc tctccccgtt gcttcattca ttctcaacaa 60  
caaaccaatc tttaaaatga gggggggcctt gtggcaactt gggcaatcga tcaactcgccg 120  
tcttgcccat ggagataaga aggtctgttg cgtcgtatgt tttgcctcag aagctgagct 180  
gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccatttgc 240  
tgggtggagc atgccaatcc aatacaagga ctcaa 275

<210> 1791

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555579H1

<400> 1791

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gtacagaggt agtgaaaaag ccattctact atttgatcag ggttcccaga tatgatgatg 120  
atgaaaacat aaaagagaag ataaaaaacg ctcttcacca agtagaggag aagactaaaa 180  
ttcgagatgc tattcgaatc gaaagccaga ctataaaggc cagttgtaag gatttcgacc 240  
aagagttagg gtgcaatagc agcccataga gtgnt 275

<210> 1792

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555580H1

<400> 1792

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cgtataacat ccttccccca taccttcgca tagcgaagag cctctgggca tggggtagca 120  
agtttttatac aagcccagta gcatcttgta atctatgtag ctgaccttac cataatggta 180  
gatgctattg ttgttgtagc tggtcagaag ttttaagtca ttaattgant ggaatttgat 240  
tttttacatc tatttgcaga tacatcttgg cag 273



<210> 1793  
 <211> 253  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555581H1

<400> 1793

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 ctgtttggan caacanctcc tctttaaccg ttggagctag aggtccaatt ctgcttgang 180  
 attannatct tgnngngaag ctngcaaact ttgacaggga acgtntccca gaacgtgttg 240  
 tccatncnag ggg 253

<210> 1794  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555582H1

<400> 1794

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 gcagacaatg caaactgact tctctgatna atttatatat atagtatgcc atgggttggt 120  
 caaagggtnnt ngaatatctg gaaggaaaag atttcacatc tgaanggaan gattctgtga 180  
 aaaagtntat gttgtgagga tcattnctgc ttatagtcan tggtcctttc atgantacat 240  
 gctgctntgt attgatagtg tgtcattgt 269

<210> 1795  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555583H1

<400> 1795

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tttttatagt aatagtataa antgaaggtt cttcacattt cacattatta gtttcggact 180  
 aaaaactaag tatcnattan aatcggaata tggtaaattg gnttcttaga attcataaag 240  
 gagattttat ntttctagan ttcnncna 268

<210> 1796  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555584H1  
 <400> 1796

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 acagaagcat gnggtggaag tgatgggtcc accggtggac ttcaacttcg acagcaactg 120  
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<210> 1797  
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 <400> 1797

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 cgattaccg ctgatcgacg acgttattcc cgtcggcgac gcctcctttt cgtctcgcc 180  
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<210> 1798  
 <211> 271  
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 <213> Glycine max  
 <223> Clone ID: 700555586H1

<400> 1798

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aataatccgt tgtgctgtgg cggcgccctca gcgccaacct tccaccactg gatcagtgag 180  
gactgcaatg accatgactg agaagatact ggccagagct tctgagaagg tacagctgac 240  
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<210> 1799

<211> 217

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555587H1

<400> 1799

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ggcagcaaac accaagttat caagcaacaa gacaatcagg aggattcgtg ttagaggtgg 180  
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<210> 1800

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555588H1

<400> 1800

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<210> 1801

<211> 270

<212> nucleic acid  
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 tcttagttcn nnnnnnnnnn nnnnnnnnnn tgaaacctta aattcctagc tgtcttcaat 180  
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<210> 1802  
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 <212> nucleic acid  
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 agcattcccg ctctgctatg caggccggca ttgacaagct cgccgacgct gttgggctca 180  
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 <212> nucleic acid  
 <213> Glycine max  
  
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 tattcttgct gctgatgagt caacaggagc aattggcaag cgtttggcca gcatcagtgt 180  
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cacncaanaa aanacacnga atcataactca tagtcacaca cacagcttag ttncgtngta 120  
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<210> 1807  
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<223> Clone ID: 700555595H1

<400> 1807

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 acttcatcaa gtcctctctgc agcaccaccc agtaccacgc cctctgcac cagtcctctt 180  
 ccgtctacgc tccaccatcc agcaagaccc ccacgagctc gtccagacag ccctctccct 240  
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<210> 1808  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555596H1

<400> 1808

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 cagcaatggc taatgctata actttgaaga agttgatcag gaaggggata cccccagttc 180  
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 acagttatta tgatgatttg accaaagcag tgga 274

<210> 1809  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555601H1

<400> 1809

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gctttatttc aattttacac aaatattttc atactagaaa tccgcttcac ngaattcttg 180  
tgacatctcc tttttgtcac aagcatatgt atnttttaaat ttattacaca cccgaattat 240  
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<210> 1810

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555602H1

<400> 1810

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gtttggatgg tcttattggc agaagatgct aggtggtggt catcaatatt ctgaaaggta 180  
aaacgatttt ggtttttaat gataatataa ccatgaatct aacatcagat attgaacgct 240  
acacatcaaa ataaatcgag ccaacgcatt taattgtaag tgt 283

<210> 1811

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555603H1

<400> 1811

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tgaagctgcg gatcaaacca aagaatcaga tgtagagagt gaatgtgatc tgtccaggga 180  
tgatttgata aagcttggtg ctgagaagga acaacttttg aagttgaagc acaaggagat 240  
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<210> 1812  
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 <213> Glycine max  
  
 <223> Clone ID: 700555604H1  
  
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<210> 1813  
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 <212> nucleic acid  
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<210> 1814  
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 <223> Clone ID: 700555606H1  
  
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tctaggttcc aggctatgcc gattttgtag tctgagttga ttgattcaca tcaccgagct 180  
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<210> 1815  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555607H1  
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 taaataaggc tggtaccac acatgggaaa aattaattct caaggatcca caagatcctt 180  
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<210> 1816  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555608H1  
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 taggttttgg ggcacagaga ccgaggtcgc cgccatgtca atgtcggatt ccgattcctc 180  
 ctctctctct tatggcgctg aatacaagag tctcaaacaa gttagccgag accgattatt 240  
 acatgaaatg cttaggtcag cgaaaacagg agattcaaaa 280

<210> 1817  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555610H1

<400> 1817

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atctnccett ttatntntng gntannagag atgatatggn ntagcattag cttctgccaa 120  
tgangaagac accagccccc agtttgntc agtctaaccn aaganaaang attggttgat 180  
tccaagntag aggtgcagcc aanggnacac agagtcacag tgttcagaac cattctgctc 240  
tgactatttc aagtcttct tcaagaantn tttnnacat 278

<210> 1818

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555611H1

<400> 1818

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attcatcagg taaagtatat gatcttctgt gctattctgc tccggagcca gacgaaacag 180  
tttttggtcc ctctacagaa ccaaaaatag gtatgcatct ataggtatta tttttgttt 240  
aatcttctct attactatta tatttatata aagaa 275

<210> 1819

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555612H1

<400> 1819

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gaantgggcc ggtgacgaag aagattattt aatcaaaca aatccacaga ataatgatct 180  
ttcaagcaac acggatggta agatgaacat aaccgtgaat cctgattacg tggcacccaa 240  
ggactctaca gaacagcgcg taacatgggc acaaacg 277

<210> 1820  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555613H1

<400> 1820

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 aggtccgcac atggtggtga tacaacttac aaagctcgag ggaatttgag gtacagtgca 180  
 tttggtgaat accctgcact gcatggatcat aaagttgagc attcacatgg aaacttgatg 240  
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<210> 1821  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555614H1

<400> 1821

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 atgatcagtt ctgctgaaaa gactggagaa tcagagttag aaatgacctt ttgctgctag 180  
 atgtggtctg aaactggagt tggcaacatc cctgtctggt tgattcaatt tataggagag 240  
 caataccggt gcatctttga gagagaccag aagttgtg 278

<210> 1822  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555615H1

<400> 1822

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 cccttaaccg tccaagacgt tcaggttgct ccgcctcagg ccggcgaggt ccgtgtccaa 180

atcctcttca cgcctctctg ccacaccgat gcttacactt ggggcggcaa ggatcccgaa 240  
gtctttcccc tgtattctcg gccacgaagc tgcaggga 278

<210> 1823  
<211> 273  
<212> nucleic acid  
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<223> Clone ID: 700555616H1

<400> 1823

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gaaacaggtt ggagcagcac aacttccaca cctcctcat gtgccaatcc ctaccctnnc 180  
aacngctccc gctgccagaa cctattgctt tggatagctg acgcggaaac tgacgctgat 240  
tcggcaacta aactgattta ctgcggaccc tac 273

<210> 1824  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555617H1

<400> 1824

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ccaagcctcc gccgccgatg gcgcgctggg ccaccgcgtt cctcccctcg gcgccgatgg 180  
tctacgcggt gatctccgat ccagggatcg tggacaaccc cgacatctcg agctaccaac 240  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555618H1

<400> 1825

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 tcttcaagca gcagaagtat cctgatgctg tgaagcatta cacagagtct atacgaagaa 180  
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<210> 1826  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555619H1

<400> 1826

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<210> 1827  
 <211> 276  
 <212> nucleic acid  
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<223> Clone ID: 700555620H1

<400> 1827

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 tgctcatggg gtagctgggt cagcacatgg tggacatggg taccacactg gggctcacc 180  
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<210> 1828  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555621H1

<400> 1828

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gggggtgacg ctgataccgg gggacggaat tgggcctctg gtgactcatg cgggtggagca 180  
ggtgatggag gcgatgcacg ccccatata cttcgagaag tacgatgtgc acggggacat 240  
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<210> 1829  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555622H1

<400> 1829

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<210> 1830  
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<212> nucleic acid  
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<223> Clone ID: 700555623H1

<400> 1830

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cttcttcgaa gagcgtttcg atgacgggtg ggaaaatcga tgggttaaata cagattggaa 180  
aaaagatgag aacgtggctg gggagtggaa ccacacctct ggtaatggaa tggagacgct 240

aatgacaaag gtattca

257

<210> 1831  
<211> 274  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555624H1  
  
<400> 1831

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caaggatctg agtgagtgag cgatcatgtg tgggtggtgcg attatctccg acttcattcc 180  
agcgggtccc gccggcgggg cgcacgcggtg accgccgaca tcctgtggcc gaatttgagg 240  
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<210> 1832  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555625H1  
  
<400> 1832

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gagaccagaa aaattatctt taaagaagca attgaaactg aaatgcctag aacaaaatcc 180  
caatcctagc caaaatcaag ttctcgtagg atatggagtg gggtctgatg tgggacagac 240  
atgacagtgt tgaattatag ccaatcaagt aga 273

<210> 1833  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555627H1  
  
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gataggttgt gtagatgatg aggggcactt gccgtgtgaa aatggctcgt tcttgagttc 180  
taaggaaaat gctctcttat tgagtataa tggatatact caactaagaa ctgttttcgg 240  
gtgcataaga acgagaaaca tctattgaat gg 272

<210> 1834  
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<212> nucleic acid  
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<223> Clone ID: 700555628H1  
<400> 1834

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cagcaaagg gctttcgact ggaccatcaa caagatcgtt cgcgacaacg tctctgcctt 180  
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<210> 1835  
<211> 274  
<212> nucleic acid  
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<223> Clone ID: 700555629H1  
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cgaatgtgat gtcctgatg cacaatatca aattgttgaa ccagttgcag aggaggatca 240  
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<210> 1836  
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<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700555630H1

<400> 1836

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tctggaatgg gtaccttgct tatctcaaag atcagagaag agtatccgga taggatgatg 120  
ttgacattct cagtgttccc gtctccaaag gtctctgaca ccgtgggtga accctacaat 180  
gccactctct ctgttcatca actagttgag aatgcggatg aatgcatggt ccttgataac 240  
gggcactcta tgatatctgt ttccgtacac tcaa 274

<210> 1837

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555631H1

<400> 1837

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aagcaatctt aagccagtga cattggagct tggagggaaa tcgcctttca taatatgtga 120  
ggatgctgat gttgacaagg ctgttgaact gcacactttg ctctgttctt taatcagggg 180  
caatgttgct gtgccggctc acgtaccttt gtacatgagc gtgtctatga tggttcttgg 240  
agaaatcaaa gaaacgggct ttgaga 266

<210> 1838

<211> 133

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555632H1

<400> 1838

aaaatttgta atccgagtc ctccagcagc atgccaggtc tcgtatcgga cgccaaccc 60  
ctcggaatct ccgtcccga cacaccagg cagtcccaga gaacccttc tccactcncc 120  
aaaaaaccac cca 133

<210> 1839

<211> 280

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555633H1  
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 ttagcagggtt cagagtggga ganttggtgg gagttggact cctcgtagggt tgctgcaaaa 120  
 actgccgcca tgccaacaag acattgagaa ttactgcatc aagaagatct ggtcttataa 180  
 tgatgtttat gtcgatggaa aaccacgca ggggtggcttt gctgaaanct tggtcgttga 240  
 gcaaagtttg tggtganaat tccagagggt ttggcgccag 280

<210> 1840  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555634H1  
 <400> 1840  
 accttagtaa cattgccaca tattgtgttc attttgaat tgtgccacta aaattctatt 60  
 caattcatct atggctgcct cttcttango tatgcnatca atcctggcna accctttgat 120  
 ccgcatttcc agcgggtcta nggtgaacca atttggcgtt cntgctttgc anatgagaca 180  
 ggaatgttgg cctgngagtt aggtccatgg ctanggaaga acaaccaagt gngcctgcaa 240  
 cccagttaca ccgccaccat cagtagaanc caagccac 278

<210> 1841  
 <211> 121  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555636H1  
 <400> 1841  
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 cttgttgaaa tctgggtaag ttgtatcaa tataattggc ttatcattcg ctttctgctg 120  
 t 121

<210> 1842  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555637H1

<400> 1842

ccggtctcca acccctaatt tcctcccaaa cttcgtgtct cacaccatca cagctttcc 60  
 ctctctcttc tactctatat aaacacactc acacaccact cttccacatc tcactttcca 120  
 atttccctca tggagtttca aaaacctcta tggctattct tgcttctcct cactctcctc 180  
 tcaagctccc aagccaacaa attcaacgtt ggtggaagca aaggggtgggt tccaaaccct 240  
 tcgagagtta caacaattgg gctggaagaa accga 275

<210> 1843  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555639H1

<400> 1843

ccttctcttc caaatcctgt gatcccatc caatccgttc cgttcagctc aatctcaaaa 60  
 tctcaatggc cgataatgag caaccgaata acgaggaggc aagtcctctt ctccaccagc 120  
 ncctcccnnn nccnnatccg aaccaccaac gccacctgag actcccagag ttctcctcgg 180  
 ctggaccgct gatgggctcc ctctngccca cgccagcgtc gtgggcccagc ccatgggncg 240  
 gcncccttga actcntcnat ctgcgnntgt ntgc 274

<210> 1844  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555641H1

<400> 1844

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 cccttctact gtngcngngt tcaacccttc gttctcgcac ccggtgtngt actantctca 120  
 ctgtacttct tcagagactc ccactccaac ctncggnaga aacgagtagt gtcggggggt 180

cagccccagg gctcaattca cctcggaaac nattttggcg ccatcaagaa ntgggntgcc 240  
ttnagaatgt gtanganaca cnnngncntna tt 272

<210> 1845  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555642H1

<400> 1845

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agagacgggtt cggttatattt tcgtggccga tggtttatgc tagattgaaa taaatttgca 180  
ttgactatgg gtgtctctgg gaagtggatt aaagcattgg ttggtctaaa gaaatcaaaa 240  
agccagggtc ttctgagaag gatggaaatg t 271

<210> 1846  
<211> 270  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555643H1

<400> 1846

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ataacacctt gacctagagc ntgtggtatg atggtatcaa tatcaagaag ggttgagacc 120  
gtacccttaa atttgatgaa gcgtgtgatt cactgtttaa ttttgagtg ccttcgatag 180  
ctctcaaatg tgcctgtggc ttgtagttgt gggcgtggca ttagcatttg catgtaccat 240  
tattgaagca agcgcaaggt ccttaccctt 270

<210> 1847  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555644H1

<400> 1847

cagaggattc gctccaaccc ctatcgagta aggtattatc tgtcaattta cattcgaaaag 60  
 ggtaggcta ttgaatttta aataattaca gataaaataa tcgatagctt tgattttaaa 120  
 aattaatcat aatcatcggg taggttgcaa cataatactt aattcgctta attttttaac 180  
 tgcgcctcag agtattcata acatattcta ttaaattaat aagctgggtga tgtaattaat 240  
 attaatatgt agttttggca atcttattgg cag 273

<210> 1848  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555645H1  
 <400> 1848

ctacgcttca cttttccgta ataaaccctt caaaagcgaa aggnntttctc gtttttggac 60  
 cttatctctc tttctaaggt tcgattctgc gtactttggg aggaacagac acacatgaag 120  
 gattcgaatt cggatctgtt tgacccggtc atggcgatgg agtccgagtg gtctcgcggc 180  
 ggcaccacct ccgatgccga ttctgccttc gccttcaacg acagcaactt ctccgacagg 240  
 ttctccggat cgagatcatg caccgacccg tc 272

<210> 1849  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555647H1  
 <400> 1849

agctgatgtg ccatttataa gttgttctgc tagtgagttt gtagagttat atgttggtat 60  
 ggggtgcttc cgtgtgagan atctctttgc aagggcaaag aaagaagcac catccataat 120  
 atttattgat gagatagatg ctgtggctaa aagtcgtgat ggtaaatttc gcattgtcag 180  
 caatgatgaa cgggaacaaa ccttgaacca gctgctcact gagatggatg gttttnacac 240  
 agttctgctg tcattgttct tggagcaact aatc 274

<210> 1850  
 <211> 173

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555648H1  
 <400> 1850  
 cacctogtag tctccgcagt tggggtttag agacaactgc aactccgtta ataacaacac 60  
 aacactcaaa acccaaaaca ctttatactt tcttcacttc gaactcgcnc ttcgtttccc 120  
 tctctatctc tccgccacgc gccaccatgt cagtctctan tccgtcnagn ttg 173

<210> 1851  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555649H1  
 <400> 1851  
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 ggttttggat tccttgggac aaccactggc cccgaatcct ggggaaattg tgagtaaata 120  
 ccctttttgt ctatcaattt gtaagcatcg atcactccaa aatttacaat atatttaccg 180  
 taatccttaa ttttgcaaga gttcattttt ttaagaataa gaaatgtag tagcacattc 240  
 tttaacacac ttttttaaaa tacaattaga aattac 276

<210> 1852  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555652H1  
 <400> 1852  
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 tctatttcgt tccacacaan atacgacang ntntcagga ntcaatgccg gcggattagg 120  
 ataagaagaa gggattgcgt tcgcnncttt tntcggttcg ncctatgctg gtcctatgaa 180  
 gattatcaat aacatcttta actcagatct ngtgtccagt cntcggaggg aggacgantg 240  
 cagcacantc gtgaaaatgn cgaattggtg 270

<210> 1853  
 <211> 205  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555653H1  
  
 <400> 1853  
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 agtgaacgag gggcaccctg acaagctctg tgaccagatc tccgatgctg tgctcgatgc 120  
 atgcttggag caggaccctg acagcaaggt tgcctgtgaa acctgcacca agccaacatg 180  
 gtgatggttt tcggagagat caca 205

<210> 1854  
 <211> 271  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555654H1  
  
 <400> 1854  
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 gatgtggttg tccgacttgg tgtgttaccg tcgatttggc cataatgaga ttgatgaacc 120  
 atctttcact cagcctaaaa tgtacaaggt aatccgaagc catccatcaa ctcttgagat 180  
 ctatgagaag aagcttttgg aatcagggga gttgacacaa gaagaaattg ataggaacac 240  
 aagaaggcca catcaattct aaatgaagaa t 271

<210> 1855  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555655H1  
  
 <400> 1855  
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 ataacacctt gacctagagc ntgtggtatg atggtatcaa tatcaagaag ggttggagcc 120  
 gtacccttaa atttgatgaa gcgtgtgatt cactgtttaa ttttggagtg ccttcgatag 180  
 ctctcaaatg tgcctgtggc ttgtagttgt ggcgtggca ttagcatttg catgtaccat 240

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270

<210> 1856  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555656H1  
  
<400> 1856

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ttgatccaag ttatgaggac gtcttgaatc gtgtagtaac ttatgcttct ggccttccat 180  
tggctttgga aatcataggt tccaatatgt ttggaaaann tgtagcngga tnngaatacgc 240  
gggtgaacat tataaaagaa ttcccaacga tg 272

<210> 1857  
<211> 270  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555657H1  
  
<400> 1857

agaattccca gactgcaatg cacaacacta actttggtgc gtccataccc tctactgcat 60  
ttggagcaac tgtggcagga caggggatac gtgctggaca acctgatcaa caaccaaaga 120  
actcagtgtt ctcaaagca ctctctagtc ctattcgacg cagccttcag ccatatcatt 180  
tggcacaggg gagctttcct tcatgtaata tcatgtcttc aggaaatgga acccggaata 240  
gtgacatgac ttatcctaata ggccagaaca 270

<210> 1858  
<211> 269  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555658H1  
  
<400> 1858

tgactgttta gaccctttta ggagtgggtg tottatattc atcgggtggt gtaataaaag 60



tcttgaggcc ctggatgata tgtattacct atatacaggg attgcacggg aaagtgaaca 120  
gagaccagaa aaattatctt tanagaagca attgaaactg aaatgcctag aacaaaatcc 180  
caatcctagc caaaatcaag ttctcgtag atntggagtg ggttctgatg tgggacgatc 240  
atgacagtgt tgaattatag ccaatcaag 269

<210> 1859  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555659H1  
<400> 1859

atttggtttc acacacacag aagaagcaaa aagagagaga agagaaacac acaaacacaa 60  
acagaagcat ggaggtggaa gtgatggttc caccggtgga cttcaacttc gacagcaact 120  
gctcctcccc cttcatcacc gccccttcca gcccctaatt cttcgcttcc aacaaaccaa 180  
acttcttctt cagcgcccc accagcccca cacgtggcac ctctccttc ttccacgatc 240  
ccctcctct tctctgttc ttcccatga ag 272

<210> 1860  
<211> 270  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555661H1  
<400> 1860

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gaatcctcca ttggacggca tcaccaatct togattctcc aatcacagcg atcatctcct 180  
tgtgtcctca tgggacaaga gcgtgaggtt gtatgatgcc agtgccaatg tcttgaagga 240  
gagtttatgc acgctggtcc cgtcctcgat 270

<210> 1861  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555662H1

<400> 1861

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aaccttttttc gagcaccat taacattaac atggccattc cctaccccca tttcatcgcc 120  
acgagaaagc cgccatggac gccggcctcc tccaccctn ctccccctcc tccgtcatcc 180  
tcaccaaga cgacctcaag aaaatcgccg cctacaaggc cgtcgagtac gtcgagtcg 240  
gcatggctct cggcctcggc accggctcca ctgc 274

<210> 1862

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555663H1

<400> 1862

ctcagatcaa aattgcggag tggaatcccg agaaggactt gctcgccatg gtgactgacg 60  
attctaagat cttgtccat cgtttcaatt ggcaacgctt gtggaccatt actccaggca 120  
gatgcataac atctttgtgt tggcgtcctg atggaaaagc aattgctgtt gggcttgatg 180  
acgggacatt gtcactgcat gatgttgaga atggaaagct attaagaagc ttaaaatcac 240  
attgcgctgc cattatatgt ctcaactggg agg 273

<210> 1863

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555664H1

<400> 1863

gctattctta cctcttggca tgaccattca aatgtcttct tttctcttag cttctcttgc 60  
tgttttcttt ttcttctcct ccttggagaa gagttttgcc tttcaagcag caagaaagga 120  
ggacacagaa agcaacaatc ttcatcaata tactcatctt gttcacctca gtcactcct 180  
tccttcatct tcttgcagct cttctaccaa aggttncaaa acaaaagcat cattagaagg 240  
gtacacaaac atgggcatg ctcccaacta aatg 274

<210> 1864  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555665H1  
 <400> 1864  
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 tccttgatga tgaacaaata gaaagtggat gggttctcac ctgtgttgct ctacctagtc 120  
 agacgttgct attgagacac acaaggatgg agagatcgaa tgatcgatat atatcataat 180  
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 agtgatttgg cattggctag ttagctagct gg 272

<210> 1865  
 <211> 156  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555666H1  
 <400> 1865  
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 gaaatatnta atctaaataa tccaaaaatt cactcttaat cttgacagtg atatacgtgg 120  
 tatatgtaaa tcctagangt aaaaataggc ggnctt 156

<210> 1866  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555667H1  
 <400> 1866  
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 agcaagcctc caagcttcga gaacaggctc ctcgccagca gcaggctgtt ctgaagcagt 180  
 ttgggggttg cggttatgga gggtcagata atgtgggttac tgatggagtg gagcccagct 240

269

gtttcttaca	aggctctact	ctactgcttc	accttctgct	ctagaaaatt	cagtgggtgat	60
acatggcttc	ggctactctc	tctgtagcca	aaccagccct	tcaggcaaatt	gggaaaggct	120
tctctgaatt	ctctggcctc	cgcagctcat	caggcttcct	tcctttttct	agaaaatctt	180
cagaggattt	ccattctgtc	attgccttcc	agacctatgc	agttggaagc	agtggaggat	240
acaagaaggg	tgtgacagaa	gcaaaactga				270

ggcaattgtg aatcccaagg aatgaaggat ttcattgaatg agagcaagct gaatgatctc	60
ttgaacagct ctgattatgt cccaacctat gaggacaagg atggtgactg gatgctgtcg	120
gtgatgtccc atgggagatg tttgttgaat catgcaagcg tttacgcatc atgaaaggaa	180
aggaggctat tgggtcttggc cttgcaccaa gagccatggc aaaatgcaag aacggagcta	240
gactagtctgc acaattcatg acctgcc	267

ggtgcaatga ttggcgttac tctatggcaa taactgtttg ctgaatttga ggcaaagttag 60

cattgtggtt ctgcatattt gattcagaac attaaagttg ttgacaatca ttctacatac 120  
 aaaacaaata toccttcaat gtccaaaata tcaagcatgg gtcaaagttg tatgtcaaca 180  
 ttgatatagc aaaaatccaa gaattccata ataggtagaa tgcatatatt tttggaacac 240  
 tcaaatttga ccttcatctt ttgttgc 267

<210> 1870  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555671H1  
 <400> 1870

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 tgaatctcgc ggcgttggtc tttctgctgc tgcggctgtg gttccggcgg cgatgggaca 180  
 gcaatcgttg atctacagct tcgtcgtcgc aggcaccgtt atcctcgcgg agtacaccga 240  
 gttcaccgga aacttcaccg gcgtggc 267

<210> 1871  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555672H1  
 <400> 1871

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 caacaatggc tctctcttca tcatcattgg ctggccaagc tatcaagctt gccccctcca 120  
 cccctcagct tgggtgttga agggtttagc tgagaaaaac agcctccaag actgtttcct 180  
 caggaagccc atggtacggc ccagatcgtg tcaagtactt gggcccatc tctggtgagc 240  
 ccccatccta cctcactggt gaattccc 268

<210> 1872  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555673H1

<400> 1872

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 aactagcta nccacatac aatgtcgacc aaatttaagg tgtttcgtga attcacaagc 120  
 gatgactcat tcctaaacca agttatccct gaaaacatca ccgaattcca agtgactctg 180  
 tccctcncta gagactacga tggcaacaac tcaaccaacg gaaagttcat tccttatggg 240  
 aactgaaaa ggatcatccc aagtgata 268

<210> 1873

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555674H1

<400> 1873

agcaaccatg gcaatggcaa cccaagcctc tctcttaacc ccacccctct ccggtctcaa 60  
 agccagcgac cgcgctccg tgccatggaa gcaaaactcc agcctctcct tctccagccc 120  
 gaagccctc aagttctcca gaacaatcag agcagcagcc gccgacgaga ccacagaggc 180  
 accagcaaaa gtagaggctg caccggctgg gttcacccca ccagaacttg acccaaacac 240  
 cccttccccg atcttcgggg gcagcacccg 269

<210> 1874

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555675H1

<400> 1874

ttcgtagaca ggatgctgcc gcgtggcttg aatatnttga atcaaaagcc atngagcagc 60  
 aagaagcaac taaaaatgga actccaaagc ctgatgcac cattgcaagt aaaggtcacc 120  
 ttagcgtgtc agatctcctg gattttatta gtcccaaccc aaaaggaaat gatgctcgga 180  
 ggaaacagag gcgtacaaag atactctcaa caagtgataa caacatcaag aacatgatga 240  
 agcaatagct gatgagac 258

<210> 1875  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555676H1  
  
 <400> 1875  
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 ggtgagactt acagcgttac tttggatgct aagggaaacct acagtttctt ctgttcgcct 180  
 caccaaggag ctggtatggt gggaaaagtc actgttaatt aattattgtc tcagggctcg 240  
 tctcctacgt ctaagttctc atatgg 266

<210> 1876  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555677H1  
  
 <400> 1876  
 ctcgcagtgg agagagagtg ttagcaccaa aaatgtcgaa gttaatcttc gtgttccttg 60  
 cactaattcc tcttctctgc acctccttct cgccagagaa accctcagat cggcgcatcc 120  
 tcgttttgct cgatgacttc gccatcaa at cctctcactc tctcttcttc aactccctca 180  
 aatctcgcg cttcgatctc caattccacc tcgccgacga ccccaaaatt gcgctccaga 240  
 gatacggcca gtacctctac gacgcccta 269

<210> 1877  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555678H1  
  
 <400> 1877  
 caaagcacia agcaaagctc atccttgagt taaaaaatgg cagcagcttc ttccatggct 60  
 ctctcatccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc ccagagaagt 120

ggaaggggtga gcatgaggaa gaccgtcacc aagcaggtct cctcaggaag cccatggtac 180  
 ggcccagacc gagtcaagta cttgggccc tctctgtggc agccccgc ctactaaccg 240  
 gtgagttccc aggcgactac ggctggga 268

<210> 1878  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555679H1

<400> 1878

caancgcata aaaaacanag anacagtgn ctnagcgccg ccgtngncc ancattctca 60  
 tattantcta ttgnctttct ttcacgtttt tctggtttnt aagcccttcc agtgccttat 120  
 ttacgcttat acccttctgg ttatgatagc tccattcggn gtcagcann agccgaagct 180  
 cttggcttcc acacatactt tcgganncg cgattgagat acaaagctcc nagnagacgg 240  
 accaatcctc aaattcgnac tttacc 266

<210> 1879  
 <211> 232  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555680H1

<400> 1879

atnntatcac tggattaata attagcacat agtttnttgg aagagttgtg anaatgggnc 60  
 ttngggagct ntntggagt gcatctatgc ccntgatcaa agtactaata atcactgcag 120  
 ttggcatgcc tctngcactg gatnacgtnn tntgcngggn aangangcaa ggntnccaag 180  
 tggcatcanc ttgtgnntta tgtgngcaan cccgnactgg tnggtggcaa tt 232

<210> 1880  
 <211> 262  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555681H1

<400> 1880



gtcacatccc tgaggaacta tgataagtaa caaagctgaa gtaatgacct caggccttgt 60  
 gggactgtct ctctcttatg ctttctcctt gacaggatct caaatatctt ggactcgatg 120  
 gtattgcaac ttattaaact acattatctc tgttganaga atcaagcaat tcntccacct 180  
 accagtggag cctccagcca tcttggagga ccaccggncr ccattcttcat ggccttcaan 240  
 aggcaggatt gatcttcaag cc 262

<210> 1881  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555682H1  
 <400> 1881

cttgcgtttc atgtgttggg aaaattgtga aaggtgacgt ggaccagtca gatggtagct 60  
 tccttgatga tgaacaaata gaaantggat gggttctcac ctgtgttgct ctacctaggt 120  
 cagacgttnt cattgagaca cacaaggatg gagagatcga atgatcgata tatatcataa 180  
 tgtaatcttg tccattgctc ttctaattgcc atctatctat gtcgtgtttt gatttggttag 240  
 agtgatttgg cattggctag ttagcta 267

<210> 1882  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555683H1  
 <400> 1882

ggaagagctt gttgggttct ctgagcttcc acctttccag gtcgggatcc aaagaaaaat 60  
 ctnnactttc ttcaacaatt catctccaca atttctgggt agtggctttt tttagcagga 120  
 atggctcaac gttctaattg tccaatgtta ggcaagagtg aagagaatgt ttcagataca 180  
 gtcattctg acaaagccca gaaaggctag ccagttnnca aagatgatta atccaatgac 240  
 accaaggaaa attcagatgt agtttcttct 270

<210> 1883  
 <211> 267

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555684H1

<400> 1883

caaactcata acaacaactc cttctgttca caaactcatc ttcaattcct tttctgatct 60  
 acgcaagggtt aaggttaatn tntcgctatc tacttggaca tgaacgaaat cgatgttcct 120  
 tcgttctttc tctgccccat ttcgctagat atcatgaagg atccagtgcg ggtctcaacg 180  
 ggcatcacct acgaccgtga aagcatcgaa acctggctgt tctcgaagaa aaaacgacat 240  
 gccccattac caaactgccc ttgatag 267

<210> 1884  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555685H1

<400> 1884

ccatccttat tcgttcctca ctcanacagcc actcattctc tcttctctat tcagtaaacg 60  
 gctgttttgt atacgagctg tcccagtctc agcctataca tccanaaca tcannacaac 120  
 tgggtgggct ccttgtatgg cttcttcctc agttggtaga agggctacat attcaacaca 180  
 atctttatca acaaatgagc cagttgtatc tgtagattgg cttatgataa ctgaaggagc 240  
 caganatcaa ggtactagat gct 263

<210> 1885  
 <211> 265  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555687H1

<400> 1885

gggaaatggc gtacctgaac gctaggcgca ccttagcatc taccctgtca cgagctcttt 60  
 cttcttcatc cgctagcgcc tctcgctttc gcttcgcatt cgcattcgcg ttgctccccg 120  
 ccaaacaaac cgcacccaac cctcactggg cgagtttcgc ggttcggact caatcttcgg 180  
 gttcgggtta ctgcgccctg aacgacccgt ccccgaaactg gagcaaccgt ccccgaaagga 240

gaccattctt ctcgatggct gcgac

265

<210> 1886

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555688H1

<400> 1886

cacagatctg tcttccgaag caggaactaa atatggctga cttgttgga tggtcaaagc 60  
aagatnagaa acgaatgctt catgtcgtct accgtgttgg tgaccttgat cgcaccatca 120  
aattttacac agaatgttta ggaatgaagc ttttgaggca aagagatatc ccagaggaga 180  
aatatgctaa tgcttttctt ggatttggcc ctgaagaatc ccattttgtt gttgaattaa 240  
catataatta tggggttacc tcgtatg 267

<210> 1887

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555689H1

<400> 1887

ttgctctctg tgaggcttca atttctaatt agggtttcgc ttagagtaac caataaccat 60  
gggagtcttc acctttgtcg tccgcaaadc cggcagcgaa tggagcgcca agcaacattc 120  
cggcgacatc gaggcctccg ccgattccac cttcgatctc caacggaagc tcgtgcaagc 180  
cgctctcgcc gttgattcct ccggtggagt tcagtcctct ttctctcccg gtctcctacc 240  
tccgctgtgt tccaggtgat agt 263

<210> 1888

<211> 265

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555690H1

<400> 1888

caaacgcata aaaaacacag agacagtgtg tcttagcgcc gccgttgenc taccatcttc 60

atattattct attgcctttc ttcacgtttt ncnggttttt aagcccttcc agtgcctnt 120  
 ttangctnat acccttctgg ttatgatagc ttccattcgg cgtcagcaga aganccgaag 180  
 ctctggcttc cacacatact ntcggnnccg tcgaatgaga tacaaaggcn ncaanccagn 240  
 cgnggccant cctcnaattn caatt 265

<210> 1889  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555691H1  
 <400> 1889

gaaattttta aaatgactng gataaactta agaattcaat tattgaaatt gaataagtaa 60  
 acaatttaat tggattggtc gaatgggtatc aaaaaaatgg agtactaact cccatttctt 120  
 atttattatt gaattaaccg atcaacttgc tttgttatcg aacatttctt tttgatttca 180  
 aaaatttttc ggaaaaaatt tgaatctatt tttatatgcg aatcaatcca ctacttctgg 240  
 tcctgagggt tctgcgcttg aaa 263

<210> 1890  
 <211> 237  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555692H1  
 <400> 1890

aaccctaate ctccatcatc gatttgactc gattctctac gctgtntggt atntccttca 60  
 aagcaaaaaca attccatcga tgaatcgggc attcgcagct tatcgtgaat aatgatnttg 120  
 gagcccgcat aatgcgnntg gcatgggttt ggagatgccg gagcttcgta gtggaccgcg 180  
 aacgacgtcg tggctccggt tgctcnanaa tctccgangc ancgntnnng natgtgt 237

<210> 1891  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555693H1

<400> 1891  
 tgaatctgtt ctctcaacca tgggcaacct acaatttcac cttctttctg ttgttctnnn 60  
 nnnnnnnnnn nnnnnnnngt tgtctatgcc tatcataatc ataatagcaa ttccaacaat 120  
 tctanattan antnatttnc caattctcgc caattctctg tncctttctca gttgtccacc 180  
 aactcctcaa agnccaggga gtggaagttc atggctgcaa aacagttcct ttgtgctggc 240  
 attgagtaca ggaagcgtcc tctatatt 268

<210> 1892  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555694H1

<400> 1892  
 gaccctgccc aacatcaagg ttctctcat tcttggtatc tggggaggca agggacaagg 60  
 aaaatctttc caatgtgagc ttgtctttgc caagatggga atcaacccca tcatgatgag 120  
 tgctggagag ttggaaagtg gaaatgcagg agagccagca aaactgatca ggcagagata 180  
 ccgtgaagcc gcagacttga tcaagaaggg aaagatgtgt gctctcttca tcaactatct 240  
 tgatgcagga gctggtcgtc ttggtg 266

<210> 1893  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555696H1

<400> 1893  
 gctcgaggtc acatccctga ggaantatga taagtaacaa agctgaagtn atgacctcag 60  
 gccttggtggg actgtntctc tcttatgctt tctccttgac aggatctcaa attttggtact 120  
 cgggtgnatt gcaacttatt aaactacatt atctctgttg aaagaatcaa gcaattcatc 180  
 cacctancag tggagcctcc agccncctt ggaggncac nggntccact tcatggnttg 240  
 ngaanggnng gntggtnttg 260

<210> 1894  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555701H1  
 <400> 1894  
 gggcttcctc caccgctttc ttcacacccc tccatgattt cactcaagcc agaacaaccc 60  
 catcaccccc tttgcctttc atcaaactct cctttgcttc ctccaagtca accttttttc 120  
 accctgccct ttcctacaa acctcttcca actttcccag gctttttgga aagcctaagt 180  
 ttttctctgt tcatgcaagg gctgccacag aaaaaacat ttatgatttt actgtcaagg 240  
 atattgacag aaaggatgtt tctcttagca agtttaagg 279

<210> 1895  
 <211> 203  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555702H1  
 <400> 1895  
 gagcgacaaa gagagtgcc ggtgtgtgaa ggagctcgtt acttgggatc cagttgttgt 60  
 tattcttaat cggagatcgc agcggcggat tgcattgagc gcggatcga ggcggtgtga 120  
 gcagaggatc gaaagatgtc tgcgatcata gtgtgcggga agagatcagc gctgttccaa 180  
 gaccttctc ccaagaggat ccg 203

<210> 1896  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555703H1  
 <400> 1896  
 acaaatcaaa gccatggcca cctccaactt ctctattgtt ctctccgtct ccctagcctt 60  
 ctttttggtg ctacttacca aggcacactc gaccgatacc gtttctttca ccttcaacaa 120  
 gttcaaccca gtccaaccaa acattatgct ccaaaaagat gctagtattt catcctctgg 180  
 ggtgttacaa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggtcg 240

tgccctttac gctgccccaa tccagatttg gga

273

<210> 1897  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555704H1

<400> 1897

tccgtaaatt attcatagca tatttcanac cacactcann aggettcnct cnctnacttn 60  
gattngattg atttcatnac atggctacac tatntgtttn nnantngtga attgcatttg 120  
ctacactata ttttaaggac aattatacat agactatatg gggttgatgg ctgcgaacca 180  
aactcnattg ttgtctaaga tggccatcgg anatggacat ggtgaagcat ccccatattt 240  
tgatggatgg aaggcttatg atgaaaaccc c 271

<210> 1898  
<211> 114  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555705H1

<400> 1898

ctccngtcgt cgnttngatc agcttcttgg ggggtggtaa gaatctnccc tctgtgnctc 60  
tnncnctgc tgagngagct ncntgtcacn ggttcagatt taganccatc atgt 114

<210> 1899  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555706H1

<400> 1899

gggaaccctt actaccatca ccgcaaggng gnaagcaggg gaagaagacg accatcacgg 60  
gttcgagctc gtgagcttgc tcaccggctg cgtcgacgca attggatcga gaaacgtcac 120  
tgcaatcaac catttcatag caaaattggg tgatcttgct tccccaaag gaacaacctc 180  
gataagccgc atttgcgctt acttcacaga agcattagcc atcagagtca cgaggctctg 240

gcctcacgtt tttcacatcg ccgccccac ca

272

<210> 1900  
 <211> 201  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555707H1  
 <400> 1900

gtgaagaaag aggttgacat taacaaatca tagcatagca gangnanaag aagaagagta 60  
 catagannga aagaacaaaa aaatganttn ganggnagac natgaagang gaagggatct 120  
 gaagaancca tttctncaca cgggaagttg gnacnmatg annggnagac aatccattgt 180  
 gnacgnttcc acacangcna t 201

<210> 1901  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555708H1  
 <400> 1901

gagcctctct tctgatccat cttcaaaaga cactgagaag ggaattcaac gctttcctca 60  
 aagcttttga cctggagtgc acctcttcac atatgangaa cttgaagagg ccacaaatta 120  
 ctttgactca tctaaagaac taggagaagg gggcttttga acagtgtatt ttggcaaact 180  
 gggggatggg cgttctgttg cagtgaagag gttgtatgag aacaacttta agagagttgc 240  
 acagttcatg aatgaantaa natcctagca aa 272

<210> 1902  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555709H1  
 <400> 1902

accgaacact cttcttcaat caagcgaagg tggctctogat tgcaagtgat ccacgatata 60  
 ctctacgctt cacaaaacct tcaaaccxaa ttccacagaa ttcttctgcg ctcaccatgc 120



caccaaagcc tttagactat ggtcaataa atgaaaacgt gaagaagagt caatatgctg 180  
tcagaggtga attatacctt cgagctttct gaacttcaga aagagggcaa aaagattatc 240  
tttactaatg ttgggcaacc cgcattgcatt gggaca 276

<210> 1903  
<211> 271  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555710H1  
  
<400> 1903

ggcagctgca acatctagtg ctgtgttaaa cgggtttgga tctcacttct tgtgtggagg 60  
aaagaggagc catgcccttc ttgctgctag cattggaggg aaagttggtg cttctgttag 120  
tcctaaaaga gttattgtgg cagttgctgc tgcaccaaag aagtcattga tccccgctgt 180  
aaaaggtggt gggagtttca tagaccaga atggcttgat ggctcgctac caggtgacta 240  
tggttttgac ccactaggac taggaaagga c 271

<210> 1904  
<211> 274  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555713H1  
  
<400> 1904

caggaagctg ctaaactgca agaatcaaac ggttctgggg ctgaagtgga atacaaacct 60  
cttcccagtg gaccaaattg tgccaatgaa aaggacacca aggaacaaga ggtgactatt 120  
attgaaaatg tatattggaa ggagtttggc cttcttgat ttgtttgggt ttcattcctt 180  
gcactacaga ttgccaagga aaactatacg actacttggt caacatttta ttgggtactg 240  
aacttggtac aggttccagt ttcagttgga gtaa 274

<210> 1905  
<211> 204  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555714H1

<400> 1905

caaaatatac aggatgagta tattaaggct tattatgctg ctttacttaa gcaacacgaa 60  
 ttggaagaag ctgcaaaaaa acaattgcc aatacacttg ctgctgatga tccttctagc 120  
 agtacttcca atcgccaggt tggcatgana tcaaaacgtg aggcagatga tgattgtact 180  
 gaatgggagg aggctcccat tgca 204

<210> 1906

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555715H1

<400> 1906

ccgagactc ctgttctaga taactggtat cgcctgcctg ttgcctacca tggacgggca 60  
 tcttctgttg ttatttccgg aacagatatt gtccggccaa gaggtcaagc tcatccagtt 120  
 ggcagctcta cccctactt tggcccttca ttaaagctag actttgagtt ggaaatggct 180  
 actattgttg gacctggaaa tgaattggga aaacctgtgg atattaacaa tgctaaagat 240  
 cacatctttg gacttgttct gatgaatgac tggag 275

<210> 1907

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555716H1

<400> 1907

gtgtgcttct gctggcgggc gcggttcaag ctggcgctgg cggaggcgnc gtcggaaatc 60  
 aagaccctat tacaatgagn cctccgagaa tgagctcatg agcaccttcg catcttaaga 120  
 gattcctggc cgatgtgcag aggcaagcag naggcnactg aagaagacga ngcaagccat 180  
 catcgatagc tcatgcattt ccatgcaga ggcgctggcc tcaatctcga aactttcttc 240  
 aagtacctct tcagtnagct ntaagcctcc tcttcttctc tctc 284

<210> 1908

<211> 273

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555717H1  
  
 <400> 1908  
  
 tttcaactca tttgtcttct gtcaggtttt caatgagata aattcacgtg aaatggagaa 60  
 aataaacggtt tttaaaggca tattggataa ctatgttttc gtgggtgtca tcagtgtctac 120  
 tggttttcttc caaatcataa tagttgagta cttgggaacc tttgcaaaca caacacctct 180  
 caccctgtca cagtgggttct tttgcttatt ggttggattt atgggcatgc ctattgtctgc 240  
 tcgcttaaag aagattcctg tttgaagcac ctg 273

<210> 1909  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555718H1  
  
 <400> 1909  
  
 ataactcaca agttttgttc tttcctagca attcgggcgc aatcgtnctt ctgattcaag 60  
 gaaggagagc ttgttattct ctatcaacaa ggaaaatgtc aggtgaagag gttgttggtg 120  
 cagctgagcc agctgctgcc atcccaggcg agcctatgga tatcatgact gccttgcaac 180  
 ttgtgctcag aaaatctctg gcttatggtg gtcttgcacg aggccttcac gaaggggcaa 240  
 aagtgattga gaagcatgct gcacaa 266

<210> 1910  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555719H1  
  
 <400> 1910  
  
 gagccctgct tattctgcta gaaagcaatc attggatcat gaaggcaaac ttcacatgcc 60  
 tcatccatgg cctgtaatgc cctctagtct gtactgagc atcttgact ctaatacaaa 120  
 aggtcctgca catggtggtg atacaactta caaagctcga ggaatttga ggtacagtgc 180  
 atttggtgaa taccctgcac tgcattgtca taaagttgag cattcacatg gaaacttgat 240

gccaccccca cctgcactcc taactcaat

269

<210> 1911

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555720H1

<400> 1911

ctcgaacaca acacaacgtt agccttaaaa gtttaaacct tagcagcgtc gacaatggcc 60

ggcgaggagc tcgccgganc accacacgcc ggagctgctg tgtctgggcc atgacatcgc 120

cggaatgtgc tcggcggttat cctcctccgc cggctccgcg gngctcatgt tccgcaagga 180

ctgcaccgat ctggttcgcc ggatctccct cctcaccac ctcttcgagg agattaagga 240

actcagcaac aacgttgctg gtggttcttc 270

<210> 1912

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555722H1

<400> 1912

gcagaaagca agctcatcct agagttttaa aaatggcagc agcctcctcc atggctctct 60

cttccccatc cttggctggc aaggccgtga agctgggccc atcagccccc gaagtcggga 120

gggtcagcat gaggaagacc gtcaccaagc aggcctctc cggaagccca tggtaaggcc 180

cagaccgct caagtacttg ggcccattct ctggcgagcc cccgtcctac ctactggcg 240

agttcccagg tgactacggc tgggacact 269

<210> 1913

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555723H1

<400> 1913

tctctccgca gcagccacac ttcttcgccg ttccagctga agagccatcc gcaggtaagc 60

aatggttaag cataataatg ttatcccca tgggcacttc cggaaacact ggcaaaaacta 120  
 tgtgaagact tggtttaatc aaccagcccg aaagaccaga agacgggttg ctcggcagaa 180  
 gaaggctgtc aagattttcc ccaggcctac tgetggatct ctcaggccta ttgttcatgg 240  
 ccagactctg aaatacaaca tgaaagtcag 270

<210> 1914  
 <211> 271  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555724H1  
 <400> 1914

caaaatacta ctatagaatt ggaagtgggtg attctgctcg agacttttgg ttcgaaacac 60  
 ctccataaagt tgggccagat actccctaca aatttgggat cattgggtgat ttggggcaaa 120  
 cgtttaattc tctttcgacc cttgagcatt atttggagag tggaggagag gctgtgttat 180  
 atgttggatc atctttctta ttctgatgaa catgactaca aagatatggg tttacggtgg 240  
 gatacatggg gccgatttgc tgaaaggagt g 271

<210> 1915  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555727H1  
 <400> 1915

ccgatcccg cctcgacatt gatagcagtg gagaaatagt ttatgcaata tgagctgctg 60  
 gcagacaatg caaactgact tctctgatca atttatatat atagtatgcc atgggttggt 120  
 caaagggttt ggaatatctg gaaggaaaag atttcacatc tgaagggaag gattctgtga 180  
 aaaagtttat gttgtgagga tcattcctgc ttatagtcaa tggtcctttc atgattacat 240  
 gctgctttgt attgatagtg tgtcattgt 269

<210> 1916  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555728H1

<400> 1916

tgaacaatga tttgttccgg aagaccatgg ggccagtga gaagggctat ggaagatgca 60  
 ggattacaga agagtcagat tgatgagatt gttcttggtg gtggaagcac aaggattcca 120  
 aaggtacaac agcttttgaa ggactacttt gatggaaagg agccaaacaa ggggtgtcaac 180  
 cctgatgaag cagttgccta tgggtgctgca gtgcaaggaa gcattttgag tggagaggggt 240  
 ggtgaagaaa ccaaagacat ccttctcctg ga 272

<210> 1917

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555729H1

<400> 1917

tcaaacgtta ggacaatgac tgttccatct atagatgttc accactttgc tcatttgtac 60  
 aacgcaaac atccttttagc cctgtgtact gatgactcgg gagtcttctc tacctgtctc 120  
 tccaaggaat acaaaattgc tgctgattca tttgggctgg gaaggaggga aatgtttgag 180  
 ctatcaagga atgctgttga gcatatattc gcagatagca aagtaaagga ggatttaaga 240  
 aaaattttca attcagtggc aaaaaaatat g 271

<210> 1918

<211> 248

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555730H1

<400> 1918

gtcatacttt ttcggcacc gtctaaacaa cgtaaacacg acaaccttaa acaacggaag 60  
 attccacgcg ctcttgaact tcggcaaaaa gaagacggcg ccgcagccgc cgccgaagaa 120  
 aaaggaagtg aaagtgaac cctccggaga ccggctggtg tggttccga atgaggagcc 180  
 gccggagtgg ctcgatggaa gcatgatcgg cgaccgcggg ttcgacctgt tcgggttcgc 240  
 gaacccgc 248

<210> 1919  
 <211> 212  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555733H1  
 <400> 1919  
 caaaaagaaa aagtaaacgg ctctatctt ttgtgatgtt gttttctaatt ggtcaatgtt 60  
 gtaagaaaaa caataatgtt ttactataat tcgattgatt ttgtttaatt cacgtgtaatt 120  
 ttattgtatt tggaagttca acttgtgcta cttggcaaag tatgaatcaa tcaactgcttg 180  
 gtcattgtga aaatttagtt ctgggcagaa ac 212

<210> 1920  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555734H1  
 <400> 1920  
 gaaacgagag atcttccaat tccagtgcac agtaggtagt tcccacagca tgagcaagag 60  
 gagcatgtat cttcataacc tccatagaaa ttatctggct gatatcgggg cagataatca 120  
 aggtgtctca tcatgtcaag cttcaaagcc aggtccagaa tcaaggccct gatgtcatac 180  
 taagtgaggg agaactttct caacgcagca gcattatcat catctacaac atctattctg 240  
 gatggaaaat tggtcacacg caaactctc 269

<210> 1921  
 <211> 265  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555737H1  
 <400> 1921  
 tctccaaaga cagctctttg gtctgcctcc acgatacaga gattcagtaa gaacaataac 60  
 tccagggttg ccatttttct tgtacnacta ctccactcac caactccatg gtatctttga 120  
 ggctgcaagt tttggaggat ccaatattga tccaacggct tgggaggaca agaagtgcc 180

tggtgaatct cgtttccctg ctcaggttca agtgattact aggaaagttt gtgagccact 240  
agaggaagat tccttttagac caatt 265

<210> 1922  
<211> 265  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555738H1  
  
<400> 1922

cgccgcattg ctctcagctt cacaacacca tggaccacgt tagggaaacc tctgcttggg 60  
tagctagccg ctccctccac gttctcgttg actctgcagg aattgagaaa gtggtgagca 120  
ccattgattc cattcccaag gttgagtggg atttcgaagg gattcactac tttgataatg 180  
gaccactcac cgttcagtac ctgtttgtgt tggacgcttt aaatttttgc ttctggcctg 240  
ataaggattt gaattatgat gattt 265

<210> 1923  
<211> 267  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555739H1  
  
<400> 1923

cttcaactga gggtgagagt gacacaaatc tagggagcac tactctaaaa gttctattag 60  
attcttcaaa acatgaccat gcatcgcgag tcttgggctt ttgtcttcgg cgttatgggc 120  
aacatcatct cctttggagt gttccttgct ccattgccaa ccttttacca aatctacaag 180  
aagaaatcca ctgaagggtt tccagtcact tccttatggt gtngcactgt tcagtgaat 240  
gctttggatt tactatgctt tcgtcaa 267

<210> 1924  
<211> 231  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555741H1  
  
<400> 1924





ctccctccga tttctccaga acagcaaggg agaatcaatt cctcatcgct gcaattactt 60  
 cnttcactgc tctagtttct cttcttttct tcttccaacc tcttctcttc tataacccttc 120  
 agaanagaaa ttaaaaaacg tagcttcaga ttattctagc tcttcatttt tccatgntca 180  
 anatnangcn gtaaatttct naancgcacn gttgcagcca ttttgnggtc gaannncncg 240  
 ggntgnggnc cctggncggg tcngntttga angg 274

<210> 1928  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555746H1  
 <400> 1928

gccttcctct ctgcagagtg cagagctttc tctccccgtt gcttcattca ttctcaacaa 60  
 caaaccaatc tttaaaatga ggggggggctt gtggcaactt gggcaatcga tcaactcgccg 120  
 tcttgcccat ggagataaga aggctgttgc tcgtcgatgt tttgcctcag aagctgagct 180  
 gaaaaagaca gtgtttcatg acttccatgt tgctcatggt gggaagatgg ttccattgct 240  
 ggggtggagca tgccaatcca atacaagga 269

<210> 1929  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555747H1  
 <400> 1929

agagaggctc ctaagggaac aaggccttca aggaaacccc tacaggatat tggttgggga 60  
 cttaaaggag attgtgaagt tgcaaattga agcaagatcc aaacccatga atctctccca 120  
 tgatattgtg ccacgtgtgt ttgcacatct gcatcagagt gtcctcaaac atggtatgct 180  
 tttgtttctt agagcatctc caaccggagg tgctttgttt gcaactatca tctactgttt 240  
 gcctctttag tgttatctat tttgttacta ta 272

<210> 1930  
 <211> 272

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555748H1

<400> 1930

tgggatcagt ttgtgaagag cgatggataa cagttacat cacaacggtg gcattggtga 60  
tagcttcttc agcaccatta ttattggcgg catgccctta cacctccatc ttcagcttcg 120  
gtgattcact tgcagacact ggcaacttgt atttcagccc ctacccaccc accaaccact 180  
gccttttccc tccctacggc gaaaccttct ttcacatgt cactggacgc tgctccgatg 240  
gccgcctcat catcgatttc atcgctgagt ca 272

<210> 1931  
<211> 267  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555749H1

<400> 1931

caagattctc acaacaact cttgagaaag aaagaatggc tgccaacaca ttgatgagtt 60  
ctgccatctc agccttccca tctctccttt cctcctcaaa atccagattt gccgcagcag 120  
ttcctcttcc cagcttttgt gtcaccaatg cctcttcttc tcgcttttcc atgagtgcgt 180  
actggatgcc tggccagcct agacccccct accttgatgg ttcagcacct ggtgactttg 240  
gattcgaccc tcttcgtctt ggtgaag 267

<210> 1932  
<211> 265  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555750H1

<400> 1932

cttgaaccct ctctcctctc ctcataccca tttctncatt ctctggcacc ctatttntgg 60  
ccttgnccg catctcctac ccctntctc tgctgcatgc aaccatgaag attttcaacc 120  
ccnccaaatg ctttctccag aacgtggtgt gtcctttcga caccctcttc atcattaata 180  
ggtttaagcc cttcgatctg ggtctctccc acctccacca atnccaattc ctatccnact 240

atngaaacca natccctcgt tcac

265

<210> 1933

<211> 256

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555751H1

<400> 1933

tttagatctg caaacttcag cttagagcan nacaatannt aannaatcca ccttttctat 60

caacctctag ctatatccat tttnanccan atgacagnaa aactttccan caatccatcc 120

tngaacgtgc ctttactatc cgagtggat cancatgatg aggagnaagc catagcctct 180

catccttcta ccanaaatac tgtgtccttc tttcgacat gccttaangg actcaatgca 240

atatcaggtg ttggaa 256

<210> 1934

<211> 261

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555752H1

<400> 1934

tcctttgata taaactaagc tctttcattt ttccaatatt aaaacttcca gcttcttct 60

tcctctgtga ctcaaactgc atcaaccaag tnagtgggat tttctataaa ttgttgtcaa 120

tttgtcangt catgtatatg agaaactcat ganaactctg gtggtgactt attagttctc 180

tcggcaagta aggatttcaa acaaactaaa gttgaagaga gtataaatga ctttggaac 240

tcttcaatcc aatgagttct c 261

<210> 1935

<211> 263

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555753H1

<400> 1935

ttgaatcttt caccactatt tgataggcat caggattatg taaagcggca aactcgtttt 60

gtctcccgta aaccagcaaa agttataatt tcttcaattg aagctgttgc agagtcaatg 120  
 ggtcttaagg tccattctcg caattacaag gtgaggcttg aagncgtttc tgcaaacagg 180  
 gttggacaat ttgcagtggg cttggagggtg tttgnagttg cgccaggcnc ttttcatggt 240  
 tgatgttcgn aaggccactg ggg 263

<210> 1936  
 <211> 261  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555754H1  
 <400> 1936

acatacaccc acatatttca tatgggtact tgtaatttg ggtgtggatt gttggtttgt 60  
 nacttgtntt gttccgttca ggtgattgtn tgattgagcc ttgaagaaat ggaccacagc 120  
 gctgatgcac atcgacgga cttgatgacc ataacgcggt tcgtgctgaa cgagcaatcc 180  
 aagcaccccg agtcacgagg cgatttcacc atcttgctca gtcacattgt tctcggttgc 240  
 aagttcgntt gttccgctgt c 261

<210> 1937  
 <211> 265  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555755H1  
 <400> 1937

cngccatggc caccacgcg gctcttgctt ctacaaggat ccctcncana cacaaggttc 60  
 ccatcgaagn gcctctcact ctttccaag ccantgcgcn ttaaagagnc ttgaggtgac 120  
 ananttctcn gggcttagat ccacttcatg tgtcacatat gcnaacagtg cnagagaatc 180  
 nncntnmnt gatctttag ntcccaactc antcccaaga cnaatggatc aatcctgnga 240  
 ngggaganac agtggccaag tngaa 265

<210> 1938  
 <211> 160  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555756H1

<400> 1938

catggtaacg gagcagagga aaagcgtgtg gtgtcttctt ctccggtgga tcctcaggcc 60  
tgtaatttgg gattagccac tcatgaatca aaatcaatcc attaaatcaa aatacctttc 120  
tcactgttaa ctcatcaaca atacctaata tttttggttc 160

<210> 1939

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555758H1

<400> 1939

cgtatacacg ttacaacaag ttcttttttt ttaggcccat ctaactttgt ctctattcca 60  
ccaagtattt atcanccctt gctgttttca cttcacttcc gttctgtttc tattcctcac 120  
taggagctcc tctccactgg ttcttcatct gcatgcacac agttgcatag ttttggaac 180  
caagaattcc tgaagaagg tagcatcaac aagcagttct gaaaatggag atcaccaatg 240  
tcagtgahta tgaggctatt gcaa 264

<210> 1940

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555759H1

<400> 1940

caaccctaata ccacccaac ccaaccctat tgaattgaat tgggggaaga agaacataga 60  
aagaagaaga aaaatctgca caattgttgt aattgaacga tgtctgtgct ggtgtgcgga 120  
agcaagagat ctttgttcga agagcttccc ccttccccgc cagtatccaa gaggtctccgc 180  
tgttctctct cccctattcg cctctctctc ccttctctca tcgaccacct tcgccctctc 240  
ttccctcata tggatgacca ggtcct 266

<210> 1941

<211> 265

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555760H1  
 <400> 1941  
 gtagaactag tgatgcagga caccagcatt cttggtgctg aaagtcaccc tctccatttg 60  
 catggcttta acttctttgt tgttggtcaa ggttttggtg actttgatcc aaagaaggac 120  
 cctgtaaaact tcaatcttgt tgatcctgtt gaaaggaaca cagttggtgt cccatctggt 180  
 ggatgggttg caatcagatt cctaactgat aaccagggg tatggttcat gcattgccat 240  
 cttgaagtcc acaccagctg gggtc 265

<210> 1942  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555761H1  
 <400> 1942  
 ctgcagcatt agggtttatc atctgcttca atggggaagg gaacagggag cttcggttaag 60  
 aggaggaaca agaccacac tctctgtgtg aggtgtggcc gccgcagctt ccacctccag 120  
 aagagtcgct gcgccgcttg tgctttcccc gctgcacgca cgcggaaata taactggagc 180  
 gtcaaggcaa ttcgcagaaa gaccaccgga actggcagga tgagatactt gcgtaacgtg 240  
 cctcgccggt tcaagagtgg cttcagag 268

<210> 1943  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555762H1  
 <400> 1943  
 ccagaatcaa atcaaaaggt aaaaaacaaa ttaaaagaaa aagggaag tatactacgc 60  
 agaagaggtg gttcaaagtt caatggctga gaagaaggaa atgattccgc aacaatttga 120  
 catcgaatgcc aaatgggacg cctgcattga tctcaccgtc cgtcgcttcg tctactccgc 180  
 aaccgccggt gcatttggcg gtctcctatt tttcaggagt cctgtgactc gatgggcatc 240

tattgctttt ggtgctggag ttggaattg

269

<210> 1944

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555763H1

<400> 1944

ttcattctca tctttctctc ttctctctcc acccaaacc taactcccga cctgttccc 60  
ctctcgtatc cgtcatgaaa ggaggaaagt ccaagaccga atctaagaga gccgatccca 120  
aacttgctgt gaataagaag ggagccgcca ccaaggctag gaaacccgcc ggcaagggga 180  
aggcagcgaa agaccctaac aagccaaaga ggcctccaag tgctttcttc gttttcatgg 240  
aggagttcag gaaggtattc aacaaagaac 270

<210> 1945

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555764H1

<400> 1945

ctaaatagag tggtaaactc taaactcaga atagcatcag agtttctctg agatttgctt 60  
taatncaggt ttgaaaacaa actattacgc agnaaaagaa aaactcatat gggaatgact 120  
cttattgagt tttttgtttc ttctctttga tacattcacg atgttnagga atactatctg 180  
atttgcttca attgttattg gtgagcattg accctcttct caaaatctgt ctcttnattt 240  
ctttcttctt tcccgagaac ttgagttcct a 271

<210> 1946

<211> 261

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555767H1

<400> 1946

cgaganatgg cgatggcaat ggcgcttcgc aggctttcat cttcaattga caagcctctg 60





cttcttggca ctngncgatc gatgttnccg ngaataatct cgaaccggt tcgacggacg 120  
 gtgggggatgg tgntggtngt ngtgngggnn gtngcggtgg tncntcncag ggtgtatctt 180  
 cggaacggg nagaatttga agcangatgt nactccant cccgattcgn ccatgctcga 240  
 aacgacgtcg tc 252

<210> 1950  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555772H1  
 <400> 1950

ctcatccata acattgatac tcttttgctc tcagtactgc acctnctac ccagagaaaa 60  
 actaatgatt tcaactacgac cctataacac atgtcttgaa acaacaaagt ttctcttcaa 120  
 cccttcaaag cttggaatct ctacncaaac atgcttgata gcaccaagga agacatcacg 180  
 tagaatacaa gtgaaatgca gtggtgcaga aaacaagggt gagagacgaa cgtttttgac 240  
 actggaagaa gctggtttgg ttg 263

<210> 1951  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555775H1  
 <400> 1951

cgcagagaca ccattccaat ttccatggca ctctccttcc gccccgtcat cnacccccgc 60  
 gtcaccgacc ggttcactct ntcagttccn cncanccaan cntcccnctc ttccaacttc 120  
 ggcacctccc taccgttctc ctccccctca cgagtgcgcg cggcggttcc cttccctcct 180  
 gcttctnoga nnacgcngtn tncatncgna acntcgatcg tggtttcatn gtgatnccg 240  
 ncatgctcng ccgcatcgag cnnctc 266

<210> 1952  
 <211> 262  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555776H1

<400> 1952

cacgcacact gtcacaggtg tagcggcgaa actgaggtcg tagaaagaat ggcgaaaacg 60  
acgtcgttgt tgctctttac actgctcctc ttcggaacct tagctctcat ccaggcgaag 120  
aaatcgaagg aggatttgaa ggaagtgacc cacaagggtt actttgatgt tgagattaat 180  
ggaaaagaag caggctgtat tgtgatgggt ctttttggaagggtgttcc aaaaactgca 240  
gaaaactttc gagctctttg ca 262

<210> 1953

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555777H1

<400> 1953

gttgtttgggt ctcttctctc ttatccatgg catcaacgtt tctcacccta ccaactccct 60  
tcctacacaa aaccaatgcc atcagtttct ctaacaagag accctcattt ttgcagagga 120  
gctctctgaa gattcatgca attaccaaaa aatgggaacc cacaaagggt gtgcctcagg 180  
ctgatagagt tcttattcgt ttggaggagc tttcagataa aacagttgggt ggagttttgc 240  
tgcctaaatc agctgttaaa tttgag 266

<210> 1954

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555778H1

<400> 1954

ttgaagttga agtcttgccc ttctctcttc aactccaaac acaagacatc atcatccatg 60  
gctgcctccg tctccactgt cggagctgtc aacagagctc ttttgaacct gaatgggtct 120  
ggacctgggg tttcagctcc cagttcatcc ttctttggga gcagcttgaa gaagggttatt 180  
ggctcaagggt tccccaacac aaagatttcc tctggaagct tcaagattgt tgctgtagaa 240  
gagaagaaag agattgaaga gacc 264

<210> 1955  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555779H1

<400> 1955

ctcgtgagca tgctcttctt gctttcaccc ntgggttgaa gcagatgac tgctgctgta 60  
 acaagatgga tgccactacc ccgaagtact ctaaggctag gtatgatgaa attgtgaagg 120  
 aagtctcttc ctacttgaag aaggttggtt acaaccaga caagattcca tttgtgcca 180  
 tctctggttt cgagggtgac aacatgattg agaggccac caaccttgac tgggtacaagg 240  
 gaccaactct ccttgaggct cttgac 266

<210> 1956  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555780H1

<400> 1956

tttactcta cttctctctc ctattgcggc tagggtttag gtttttcttt caccgtctcc 60  
 gttccttcaa tcttcttatt ctctttcatc tctgatggag acgttgcggtt ttagttcta 120  
 aggggtggtt ctggccttgg gtttttgga cgtacggtgt cgttttgggg ttgggaaaac 180  
 aaattctgag agatggcaac cacgaacctt tttgatttgt tgggtgacga cgctgaggac 240  
 cntnncanct cantcgcggc gaacaaa 267

<210> 1957  
 <211> 124  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555782H1

<400> 1957

gctataagct agtttatcgt gaggagaata tgnagttgtt tgttttcttt gttgctgcan 60  
 tagnccnngg agcannnnca tgccatggcg cangctncca aaggttccct ctccgacatg 120

aaaa

124

<210> 1958

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555783H1

<400> 1958

gctataagct agtttatcgt gaggagaata tgaagttggt tgttttcttt gttgctgcag 60

tagttttggt agcatggcca tgccatggcg caggctacca aaggttcctt ctccgaatga 120

aaactggcta tggtagcgt tcttcggagg taaaatgcgc aagttttagg cttgctgtgg 180

aagcacacaa catccgagcn tttaaaacca ttcctgaaga gtgcgttgaa ccaacaaagg 240

actacattaa tggcgaac 258

<210> 1959

<211> 258

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555784H1

<400> 1959

acgagtctct catactatga tactatagct acacttccca ctgtgtctca gggctctgtga 60

tacacacaga ctcaactcaa gttcccagct ttgtccattt tcccactgt ttattgaact 120

gcagaacatg gcacagattt tggctccctc tacgcaatgg cagatgagaa tctcaaaatc 180

ctctcccaat gcaactccca ttacatcaaa catgtggagt tctttattgt ggaaacaaaa 240

taagaaagtt tcacctac 258

<210> 1960

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555785H1

<400> 1960

ggaaatgccc tactacatct ccgncctcca aatcagcgcc gccattagct ccgccgacgg 60

ccgaggcacc caccgccc ccctccgcca tcgacctgat ctccattatg tccaaacaag 120  
 gctgcaaggc cttcgcggac cttctaagag gctccaaggc ctttccatct ttcaaggaaa 180  
 acgttnacgg nggcttaacg gttttctgcc ccaccgacag cgccgtcagc ggtttcgcgc 240  
 caaagtacaa gaacctgac 259

<210> 1961  
 <211> 258  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555786H1  
 <400> 1961

aaaaaaggag gctgaagcat aatcagcgcg gcggtgtaag atgggtggcaa cggcgatcga 60  
 ggaattgcga accctctgga ttggcgattt acagtactgg gtcgacgagt cctacctctc 120  
 tcagtgcctc gccacacagc gcgaagtggc ttccatcaaa atcatccgca acaagctgac 180  
 gggccagcnc gngcggctac ggcttcgtcg agttcgtctc gcacgcctcg gccgaagcct 240  
 ttctccgaac cttcaacg 258

<210> 1962  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555787H1  
 <400> 1962

cnggnactnc aaaagatccn ngtggtgcat ctttgacaaa ggaggggaga tctagcacgn 60  
 cgggnctccc cacatacatg nancanntac ataggcacca ttcacctgtt aaagaaaaac 120  
 ggagagaana tgtcngcaag gtantcccat ccnctnggt agacatttag agggatnacc 180  
 tcttattaga naagcgatan ccccgactct ttgtctctcc tggnttctcc aaggttggtg 240  
 tgaactggcc aaagaaaaac ctt 263

<210> 1963  
 <211> 259  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555788H1

<400> 1963

ctacacaaca caacaaancc tcaactctctc tttcacgaan tcacgctctg tttcagatct 60  
gaagccacat aaccctaacc atcaaacggc taggtgtcgc tgggacttca atggcagtga 120  
ctgaagctca gaatcctctt cttggagaaa acacatgtgg ttccttgta aaaaagcgcc 180  
ggaaatatgg gatgaggttg gtgagagcga cgagcaacga gacaagatgc ttcttcagtt 240  
agagcaggag tgcttggat 259

<210> 1964

<211> 260

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555789H1

<400> 1964

ggttcaactg aggtgatggc tttgaatttg ccntctcccg cccaagtga ggccttattt 60  
ttctcttcaa ataactccac aaaacttcca ggtagctttt ctttgaagag aaaagatagt 120  
gacacaacag tagagagacg agtttattgc tctgccgctg ctcaatcacc accaccagca 180  
tggccaggaa cagctattcc cgagccttct gatttcaaga catgggatgg gcaaaaaanct 240  
atttctgtct taggatctac 260

<210> 1965

<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555790H1

<400> 1965

ggctgattta gaagatgcac tgtcaccgac ctgggaaaat cttattagt gtcaagtga 60  
cttgaaggat gctgtggatg ggaccataag cttccatgac aaagtaaggn acaggattta 120  
caagctcaat gatcagacag caaagctttt tgtgagacca agancttggc atctacctga 180  
agcacatatt ctgnttgatg gtgaacctgc aactggttgc cttgttgatn ttggcctcta 240  
cttctaccac aaccactca 259

<210> 1966  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555791H1

<400> 1966

gttgaagtct tgccttctc tcttcaactc caaacacaag acatcatcat ccatggctgc 60  
 ctccgtctcc actgtcggag ctgtcaacag agctcttttg aacctgaatg ggtctggacc 120  
 tggggtttca gctcccagtt catccttctt tgggagcagc ttgaagaagg ttattggctc 180  
 aaggggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg tagaagagaa 240  
 gaaagagatt gaagagaccc 260

<210> 1967  
 <211> 260  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555792H1

<400> 1967

gcaaaaatgg catcattcac catgacagct tccatccttg gcagcccagc cgtcaccaac 60  
 cggtcggcag tagcaacgca gaggagatca ctcgtagtga atgctgcaa agctgttgaa 120  
 gcagaaaagg tcagttatga caatgacatg gatggttagca atggaaggag gaacttgatg 180  
 ttcgccgcgg cggcgctgct gtttgctctg ttgctgggat ggcagtggca gatgagccta 240  
 aaccaggaac ccagaagcc 260

<210> 1968  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555793H1

<400> 1968

gacaaacact tcgccaacct tctgctgcat cagttgtgag atgcaacccc accaccccat 60  
 caggcctcac catcagagct ggttcctatg ctgatgagct cgtaagacc gcgaaaacag 120



tggcttcacc agggaggggt attttggcca tggatgagtc caatgctacc tgtgggaagc 180  
 gtttggcttc aattgggcta gagaacactg aagctaaccg ccaggcatac cgtaccctcc 240  
 ttgtgacagt tccaggactt ggt 263

<210> 1969  
 <211> 256  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555794H1

<400> 1969

ttcaacgttt ccatacata cagatcccaa tcctctctca agccctaatt tcccctcatt 60  
 tccatggcca cagaagaggc cactgtcgcg gtggaacccg ctcccgaacc tgcctccgcc 120  
 gatcctcccc cggaggagaa ggaggagacc aaacctgaag ccaaggctaa gaaaaccaag 180  
 gagcccaaac ctaaaaaggt ttccagacct cgcaaccctc cactcatcc ttcctacgaa 240  
 gagatggtta aagatg 256

<210> 1970  
 <211> 198  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555795H1

<400> 1970

cttgttcctc cgctcaacaa ctataataac atctttctct ctccgacaca gatcacacta 60  
 tggccacctc aagcgccaaa tcagtccatg atttcaccgt taaagatgcc aagggaaatg 120  
 atattaatct tggtgactac aaaggaaagg tocttatcat tgtcaatgtt gcctcacaat 180  
 gtggctgact aattcaat 198

<210> 1971  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555796H1

<400> 1971

ctcatcaagg gttgtgaaag cagagaagtg agatacacta agttatcctc ataaatacac 60  
tctaattagg tggcaagata agtgtctaac cttagtaaca ttgccacata ttgtgttcat 120  
tttgggaattg tgccactaaa attctattca attcatctat ggctgcctct tcttatgcta 180  
tgcaatcaat cctggcaaac cttttgatcc gcatttccag cgggtctagg gtgaaccaat 240  
ttggcgttcc tgctttgcac atgaga 266

<210> 1972  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555801H1

<400> 1972

atggccttca aagagatcaa ttcataagtg ttcataaggaa aactagattg acctcttcag 60  
tgacacttgg tagtgtccaa agaagggcat cacaagggc attaggggtgt ttccctccat 120  
catgcatttt caggcaagtg ttttacaagt tgaagagtca ttgaagcaag ctttggtttg 180  
ncaaaggagt agtagtccac agtatagcta cgattttcgc agctattctc tcaattttga 240  
tgatggcctt tcaagtgacc acattccacc tcgcttttgt tgatg 285

<210> 1973  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555802H1

<400> 1973

atttaaagaa atcaacacac acaaacacaa caacatatgg aggtgctaag ggtgcaaacc 60  
atagcttcca aatccaaaga tgctgccatc ccagccatgt ttgttagggc agagacagag 120  
caaccaggca tcacaaccgt tcaaggggtg aaccttaggt gccattatt gatttttagtg 180  
accagatga agggaaagtg gtgcatgaga ttttgagggc aagtagggac tggggcatgt 240  
tccaaattgt gaaccatgac atacctagt atgttataa 279

<210> 1974  
<211> 267



cttaggatct acgggttcaa ttggaactca gacactg

277

<210> 1977

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555806H1

<400> 1977

ttacacaaga actctccaag gatcctcctt cccacgaaat tcatttggtg ggaaaatcca 60

agaagagggt ggaatttcaa gccagggaag atggattatt tcaatgcacc aggaagaaac 120

catctctttg ttccggggcc ggttaacatc ccgaccagat cattcgggcc atgaacagaa 180

acaatgagga ctaccgttct ccagcaattc cagctatgac caaaacactg cttgaggatg 240

tcaagaagat tttcaagacc ataactggaa tcccat 276

<210> 1978

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555807H1

<400> 1978

ctgaaattca tggatatgana gaanttgaat gatggaaagc caagaaagat aaaaaatgct 60

agagcatatt cttttactct tgaagaagac accacaaatt atggatatgta tgagaaaggt 120

ggtattgtca cgcagggtcaa acaacctaag gtatgaactt taagccactc agggaagcac 180

tcagtgatcc tggcgatttt cttctgagtg atttttcgaa gtttgatcgc ccacctctcc 240

ttcacttagc tttccaggct ttggataaat tcattt 276

<210> 1979

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555808H1

<400> 1979

gagatggtga tcttgaagac tatactgaag agttgattgt tagtcttgac ccatcaaaag 60

ctgttgccaa taagatcccc acgccgcctc cgaagaagta tactgcaata aacatgcttg 120  
 atggcaggaa cagaattatt gaataataaga atctactctt tacaaggatg atgaaaagtt 180  
 gaaggccttg agtgggatga aagaaacagg gtatgttcct gacacaagat atgttcttca 240  
 tgacattgat caggaagcaa aagagcaagc cttg 274

<210> 1980  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555809H1

<400> 1980

gttaaaagcc ttagccttcc ctacaactcc aaacatgnaa gacatcatca tccatggctg 60  
 cctccgtctc cactgtcgga gctgtcaaca gagctctttt gaacctgaat ggttctggag 120  
 ctggagcttc agctcccagt tcagcttctt tgggaccagc ttgaagaagg ttattgcctc 180  
 aagggtcccc aacagcaagg tttccggtgg aagcttcaag attgttgctg tagaagagaa 240  
 gaaagagatt gaagagaccc agcagac 267

<210> 1981  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555812H1

<400> 1981

atttcgtttg gcaaattgggt atgcagcttt gaaagatgct ctagcctctg aaaatgtgag 60  
 atttcaaagg aaagctctca acttgatcca ttacctgttg catgagaata attcagactg 120  
 caacatcgty aacgagcttg ggtttcttcg atgttgatgc accttgctc aagtgaagat 180  
 tcagatgtga gagaagctgc ccttcgtggc cttctccagc ttgtcacao tgcganagat 240  
 ggcaaggatg gcnatgagaa agacagtgcg at 272

<210> 1982  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555814H1

<400> 1982

cgcaagctgc atacaatgat tgggtcatgt cgctgtacaa tgtattcttc acttcacttc 60  
ctgtaattgc attgggagtg tttgatcagg atgtctcttc taaattatgt ctcaagtttc 120  
cattattata tcaagaaggc gtccaaaaca tccatttagc tggaaacgga tcatcggttg 180  
ggcattgaat ggagttgtga cttctgccat cgtattcttc ttttgcaccc gtagtatgga 240  
ataccaggca ttccgtaaag gcggtgaagt catgg 275

<210> 1983

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555815H1

<400> 1983

ctcgagcgac taagattaat cgggttacta tagttccttg tggtcacgta ttgtantcgt 60  
agatgttctt ctgcagtgtc aagggtgtccc ttttgcggc ttcagggttac aaaagctatc 120  
agaatttttc gtccgtaata tctccaatgc tttttgatca ttttatttgg acattgtcag 180  
agttccattc gccaatatag gctaactgaa gttggctaag attaatcggg ttacattgga 240  
ctctgacgtg aatattatgt cnntgtgatt gagcccc 277

<210> 1984

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555816H1

<400> 1984

cttgggttcag gagaatcaac aaattaacac tagggagata ntttcaatca tcaaattgta 60  
accatgccaa tccgttcccg tgaacctgca cagaggccag gattgttaga ccgtcaaaga 120  
ccactanatg cagtccttgg cggaggaaag cttgctatat attgctatgg aaagacaaga 180  
tatcatcggc atcaatggta gctgggttct cnatcatntg gntcctcttt gaagtggtcg 240  
antacaattt tctnactcta ctatgtcaca tctcatggc 279

<210> 1985  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555817H1  
  
 <400> 1985  
 caattttcgc tctttcggtc tctccaaatt gagttcagag tcaccaccga atccgttcct 60  
 acaatggcga cgggtgacgtt ttctttttcc gctaaaacct taactctacc ctatcacccc 120  
 aaaacctcaa tctcgagctt cgctccggtg acgaanttcg cctctctcat tctatcgta 180  
 cccgaaccgc aaattgtaac cggattcggg cggcgctgga tggggatttc tcggcgaaaa 240  
 ggagcaacaa caacgagcag agggagacga taatgttgcc 280

<210> 1986  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555818H1  
  
 <400> 1986  
 caagtctgag tgggtgaagg gacaaacct tcgccaacct tctgcatcag ttgtgagatg 60  
 caacccacc accccatcag gcctcaccat cagagctgnt tcctatgctg atgagctcgt 120  
 taagaccgcg aaaacagtgg cttcaccagg gagggatatt tggccatgga tgagtccaat 180  
 gctacctgtg ggaagcgttt ggcttcaatt gggctagaga aactgaagc taaccgccag 240  
 gcataccgta cctcctcgt gacagttcca ggcttg 276

<210> 1987  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555819H1  
  
 <400> 1987  
 ctttgaaca aacaacaata gaggggttgt ggtgctctgt gtgctgcaat ttcttttga 60  
 gcttggtgtt gattcatcaa atcatcaaag atgactgtag gggcaggaat atctgttgca 120

gatgggaact tgatggtggt ggggaacaaa gtctgagcca tgtccatgac aaggttcttg 180  
 gtacccctgc atgtggtggt gctttgctca atggggcatt cattgggggt caatcccatc 240  
 acaagggtag ccgcacagtc ttcccaattg gcaa 274

<210> 1988  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555820H1  
 <400> 1988

gctagaatga tcattatgca tgattacccc cttcacatgg ttgancatcc gggttttggt 60  
 gcatttgtcc aaaatctgca gccccagttc aatatggtga catttaacac aattcaagga 120  
 gactgtgttg caacttacct gatggaaaag catgtgttat gaagtatttt gatggattac 180  
 ctggacgtgt gtgtctcaca ctggacgttt ggaactcaag ccaatctgtg gggatatgtg 240  
 ttattactgg acattttgtc gatagtgatt ggaa 274

<210> 1989  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555822H1  
 <400> 1989

ctttgangcg tnttcnacc tctccgacca tnggancctg cttttccgcc accaaagtaa 60  
 gcggctcnaa cggcnatggc ntcaacgtnc aacaaaaagc gcannngggac nacgaagaag 120  
 ccgaaatcag agacngcgaa ggcgantccc caaggcaciaa ggcggcaant tcgcgccacg 180  
 tgccgtgagg gaagcgcacc gatttcgggtt acaagangga tttcaatcag cgttactcgt 240  
 cggaaanttg ctgggacacg gccaatgttg ttat 274

<210> 1990  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555823H1



<400> 1990

cttctcttct cttcattttc tgtggttctc actttcttta ctctaattctt ctaattctctt 60  
 attttcttcc cccctactgt tactccccgc ttctctgaat ccctttctgt taatcatctg 120  
 tctttcaact cgtgattttt tgggtttgcc taccaaaaag attcaaactt tgaaaatttt 180  
 tctcgaaagc caggtgtttt cagaatcgag atccagcttt ttttttgttt gtttttaaaa 240  
 aattattatt ttctttcggt cagccgcgag ggt 273

<210> 1991

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555824H1

<400> 1991

gccactcatc atcgaccac cttttctcaa ctttgcggan agagggagtt gctgacacca 60  
 cccatcacct gttctcggtt tgcctcacga tgggtgctga ggcgacgttg ccgttatcgt 120  
 cgacggtgac aggaaggatt ttggatccag ggcagagaca aaacgagaaa gctacatggt 180  
 gctttgattc tgctatggaa cattgaggca aagctcagca tctaaaacct tgtaactgtg 240  
 aagctatagt ctcttgcttg cactttgcag tg 272

<210> 1992

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555825H1

<400> 1992

ctggtgattg atgcttnaga gcaaagcaga agagatgatc tcgagtctct tggttatggt 60  
 ttgatgtact tcttgagagg aagtcttctt tggcagggtc ttaaagcggg aacaaagaaa 120  
 cagaagtacg agaaaatcag tgaaaaaagg tttctacctc gattgaagcc ttgtgtcgag 180  
 gttatccaac agaatttgca tcttacttcc attactgccg atcattgagg tttgatgata 240  
 agccagatta tgcttatctc aaaaggata 269

<210> 1993  
 <211> 249  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555826H1

<400> 1993

attggaaatg tttgatggnn cataatatga ttgacgcaga tacaccatgg cncancttag 60  
 tgaaaatgac tctagaagat atttccagca gcttattgac ggtgtagatt attgccacag 120  
 taagggagtt atcacagaga tttaaagcct gaaaatcttt tactcgattc actaggaaat 180  
 ataaagattt ccgatttttg tttgagtgc tttcctgagc aggggggtgag tatecttcgg 240  
 acaacttgt 249

<210> 1994  
 <211> 103  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555827H1

<400> 1994

cttccttaag ctccttagtg ctgctccttg cngctctaatt nnantatccc ctcaagttct 60  
 tgcaaactat gagantnccc cagtgtacan gcctcncact gag 103

<210> 1995  
 <211> 271  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555828H1

<400> 1995

caaattctta aataaaagt cccccatttt cccaaaatcn accatctaga gttttctctt 60  
 ttccactgaa aatcaaatta gggtttgat ttccggaattg ccacagaatc atggccactc 120  
 tgaaagagct tcttcctcct gcaaaatcct ctccaccgcc tactacgacc acaccaacga 180  
 tccatgggtc aagcagcgtt tctcctcana ngangaggag ttggntctn anntgntgag 240  
 actggagaga aagttggtac ctttgcatgg g 271

<210> 1996  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555829H1

<400> 1996

gaattcacaa cgcacaatgg cgacaaaacc tcgtttggct tatctctctt ccacttntct 60  
 tcttctntcn tgttgtaact gtctttactt cggtgtcggc acaagcccca gaatcccat 120  
 cactctacaa cagcttcctt caatgcctcc caaatacaca antaaccctt ccaacatagt 180  
 ctctgccaac accaacccca agttcnccac tatctcccaa anctacatcc gaaacgcgcg 240  
 tttcaacacc tcctcgacgc gaaaacnatt at 272

<210> 1997  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555830H1

<400> 1997

cgccactcat catcgaccca ccctttctca actttgcgga gagagggagt tgctgacacc 60  
 acccatcacc tgttctcggt ttgcctcacg atggtgtcgt angcgacgtt gccgttatcg 120  
 tcgacggtga caggnaggat tttggatcna gtgcagagac naaacgagaa agctacatgg 180  
 tgcnttgatt ctgctatgga acattgaggc aaagctcagc atctaaaacc ctgtaactgt 240  
 gaggcntag tctcttgctt gcacctttgc agt 273

<210> 1998  
 <211> 233  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555831H1

<400> 1998

acaacagaca agtttggtgt tcctgttcta atctctggac catgtcatat aactgaatct 60  
 aattgcaatt cctgtgagcc gtggcaaagc ttttgaattt agtgcccttc actctgttta 120  
 cccttcaga tattgcagat acagcaagat catgagtggg acttcggaaa agaaacttgt 180

aagaatcgat gttagttctg atactgtatg cccatggtgc tttgttggca aaa 233

<210> 1999  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555832H1

<400> 1999

gcaaaacagt tcaggccatc acatatttaa ctttgttgaa acacttgac aatgattctg 60  
gtccacatct tatagtatgt cctgcttctg ttctggaaaa ctgggaacgg gaattaaaaa 120  
ggtggtgtcc atccttctct gttcttcaat accaggggct ggacgggcag catactgcaa 180  
ggagttgaac tccctgtcca aggcaggatt gcctcctcca tttaatgttc ttcttgtgtg 240  
ttattcaatt tttgaacgac acagtgcaca gnagaaag 278

<210> 2000  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555833H1

<400> 2000

ccatgcatca gccatgagca gtgatggtgg atgcatggac anaaccatac tccagggaaat 60  
atgcagcctt cccagctcct tgggctccgt actgcaaagt tctggcctac cacaggacgt 120  
gttgataatg tgtacggtga ccgcaacctc atttgaccct tctcccagca tcacaggntg 180  
ttgaagaaca agcagctgcc acagcataat gtgttcanat gacaactatt ttccatttnc 240  
cgttgtagat aaactctatt cctatcatat agttctttgca 280

<210> 2001  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555834H1

<400> 2001

gttcggttcc caacaactga gtttcttggg ggtggaagga ttgtggtttc tctggctttg 60

cctaaatctg ataagcaaga taggtttgtg ttttcatcaa ttaaggcctt ggctgtggag 120  
 ttaacaagag aagcacatgc ttatagggag agaaattgcc caacagggat accaagattg 180  
 atcgtggatt tgatcaaagg cctgattcgt ggcctcctgc gaataggga gataaaccgt 240  
 cgcttcggaa tccactactc cgtcatgaga gga 273

<210> 2002  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555835H1  
 <400> 2002

cgtctgtgac acacacagac tcacttcaag ttcccagctt ttgccatttt tcccactggt 60  
 tattgaacat ggcacagatt ttggctccct ctacgcaatg gcagatgaga atctcaaat 120  
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<210> 2004  
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<223> Clone ID: 700555838H1

<400> 2004

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 gctacagaca attgcctctt cgcggtttga atctgttacg cctgctcgca ttgaggagca 180  
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<210> 2005

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555839H1

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 ctgcttcgaa aagtgtcatc gagttaaaag gaaactacgt ggggagcttg acaagcttct 180  
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<210> 2006

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555841H1

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 acacttggtt ctgcatcttt ctctagaaag actatcttga cccagtttca aaactctatg 180  
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 tatgaatgaa taagattgag atatacttct aaaatagaat tgtttcaaac ctnttatagc 180  
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tggtcacctg atttacaagc ttggagcatt gacaagcgtg ttattgagag gtttgagaag   180
gaagctgctg agatgaacaa gaggtctttc aagtatgcct ggggtgctgga caaacttaag   240
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ggaagacatt gtcaggtggg gagtttggcg ggcggcacat ctgttaaaag ataacgcagg   180
tgtcctaaga tgagctcaac gagaacagaa atctcgtgtg gaacaaaagg gtaaaagctc   240
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<223>      Clone ID: 700555848H1

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 ccactacatg cagtccttgg cggaggaaag ttgctgatat attgctatgg aaagacaaga 180  
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 atctcgatgc acttctcgac atgtccacga tgaactcgtc aagatgttca gtgcccgcgc 180  
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<210> 2016

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<213> Glycine max

<223> Clone ID: 700555852H1

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<210> 2017

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<212> nucleic acid

<213> Glycine max

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201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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<213> Glycine max

<223> Clone ID: 700555861H1

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ttctgctgag aagaagctgg agagnttcag gaagaggaac tagtggagaa gccatttgaa 180

cggaaacaaa tgaaaatcag gttccctgag cgtggaagga gtggaagatc tgttgtagca 240

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caactacccc ttcaccacat taaagcacgt gctagtacca aaggcttttc ttccacgggg 180

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241

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accatcgata acgtgaaagc taagatcaag acaaggaagc gatccacact gaccagcaga 180  
gacttatctn tgcgggtaaa cagggttgagg atggtcgaac ccttgccgac tactacatcc 240  
aaaaggatnc antctccact cgtgct 266

<210> 2039  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555884H1  
  
<400> 2039

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cttgaaccgc atcaaactgc atcttttggg tgaactctct ccaactggcca ctcccctaaa 120  
ctattttgat gaatcaaacc ctageccctct gaatcttcca attcccaatc ttcttctggt 180  
tctcttaacc actacttcac tgacctcttc gaattcgact ccaaacccca aataatcgac 240  
ctcnaaactc ccaaaacact aacttcag 268

<210> 2040  
<211> 267  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555885H1  
  
<400> 2040

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catcatcgaa tcaaataat tttgaagggt cattataatg gcggaagaga taaccaagaa 120  
cgacgtcgga gtaacctcca aaacaccaga agcagctcca ggttctggcc tcgttggtt 180  
cccacttcca ccgatcacat catcctgccc gagaagcgcc ttctttccgt cgtcaagact 240  
ggttatgttc aagagcatgt taacatt 267

<210> 2041  
<211> 265  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555887H1

<400> 2041  
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 atccttggct ggcaaggccg tgaagctggg cccatcagcc cccgaagtcg ggagggtcag 120  
 catgaggaag accgtcacca agcagcctcc tccggaagcc catggtacgg cccagaccgc 180  
 gtcaagtact tgggcccatt ctctggcgag cccccgtcct acctcactgg cgagttccca 240  
 ggtgactacg gctgggacac tgctg 265

<210> 2042  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555888H1

<400> 2042  
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 gtttcgtggc ttgaaactgt ggggtattgag agactcaact tccaattcca gccaccaaag 180  
 caacctaaga ntagaaatca tcaattcaaa aataatttgg aaaatgaaaa gggatcggtt 240  
 tctgattcat cctcaattct tcatgttc 268

<210> 2043  
 <211> 262  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555889H1

<400> 2043  
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 caatgccatc caaaaggggc ttctacgtct ccgcatcgag caccaagaaa atcctaataa 180  
 tgggaggcac caggtttatt ggtgtgtttt tgtctaggct ccttgtcaaa gagggtcacc 240  
 aggtgacttt attcacaaga gg 262

<210> 2044  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555890H1  
  
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 caatgtctct caccattccc tccaacctct ccaagccgc gccctccgc cccaaactaa 120  
 gcccaaagct aaggctcgcc gcacaaccac catcgtctgn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn gtgtctctcg acctgaaggc gttctccgcc gcgctggccc tctcctccat 240  
 cctcctctcc gccctctcc ccg 263

<210> 2045  
 <211> 262  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555892H1  
  
 <400> 2045  
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 gagatcgcaa tttctccatc ntctcgtttc ggtggctcgt gaaatcgaaa gttatcgaaa 120  
 ctttcgcgcg acacgaagta tgggaaccaa gcanaatttc tatggctgac gaaccactat 180  
 atccaatagc agtgcttata gatgagttga aaaatgatga catccagctg cggttaaact 240  
 caattcgag gctatcnaca at 262

<210> 2046  
 <211> 261  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555893H1  
  
 <400> 2046  
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 agaaatggcg actaagagga gcgtgggaac gttgaaggag ggtgatttga aagggaagag 120  
 ggtgttcgtg agggctgatc taacgtgcct tggatgacaa ccttaacatc accgatgaca 180

ctagagtccg tgctgctgtt cccaccatca agtacttaac tggatcatgga gccaaagtga 240  
tcctttctag ccacttggga g 261

<210> 2047  
<211> 126  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555894H1  
  
<400> 2047

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ccttntcagt ggagancctg taagcaanat nacgcttact caggnacttc tagngcannt 120  
ngngag 126

<210> 2048  
<211> 220  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555896H1  
  
<400> 2048

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caaggtgggc atggccactt cgnaacctca aatctacaca atgcatttct aaggcttttg 120  
gcttngaacc cgctgnagct aanctcatng ntccctnaag cccgntctcn aagntntngc 180  
tcannnatgn gtngacgnca ncnaattgn ncgattngcc 220

<210> 2049  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555901H1  
  
<400> 2049

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gatggcgaat cgcacggatc cagcagcgaa gagcataaga gggacgaacc ctcagaacct 120  
ggtggagaag attctccgat cgaagatcta ccagaacacg tactggaagg agcaatgttt 180

cggtttaacg gcggagacgt tgggtggacaa ggccatggag ctcgaccacc tcggcggcac 240  
 cttacggcgg caaccgcaaa cccacgccgt tcatgtgcct cgtcatgaag a 291

<210> 2050  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555902H1

<400> 2050

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 gcataaggat gaaacagagg ataaatcaat acaattgtat cagaggctgc aagggtgtgac 180  
 aaaagttttg aattgacaga ttaatgctag aacaagactg tgggtgttgct gaacctgaaa 240  
 ctgaaaacga ggatgaaatc ttaaaatctg agttaggcag agaca 285

<210> 2051  
 <211> 91  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555905H1

<400> 2051

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<210> 2052  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555906H1

<400> 2052

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 gtcttgacc aagatcactc caatctocat ttggcttctc cagaaaagcc tcctttcttg 180

ttaaggcagc tgctaccccc cctgtacaag caaggatcag acagaccttt gtggtttgca 240  
tcaaagcaaa gtctttctta cttggatggc agccttccgg gtgact 286

<210> 2053  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555908H1

<400> 2053

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cgtgggtgga ggaggcggcg aacccgatac gaaggtgtct ggcgtggagg cggaggtgggt 180  
tcgggtgatc ggggagtgcc ggcgtgcgtt gaagtttgct aggttcgtga gcaggttcgg 240  
gaagagttac caaagcgagg aagagatgaa ggagaggtac gagatattct c 291

<210> 2054  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555909H1

<400> 2054

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caagatgaag gagcgtctcg ttgggggtttc tgaggaaacc accactgggtg ttaagaggct 120  
atatcagatg caggcgaatg ggactctact cttcctgcta ttaatgtcaa tgactctgtt 180  
accaagagca agtttgacaa cttgtacggg tgccgtcact ctctccctga tggctctgatg 240  
agggctactg atgtgatgat tgctggaaag gtggctgttg tggctggata tgg 293

<210> 2055  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555910H1

<400> 2055

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 attacaggte ttgtggttca accatgcgtt ggtattggag tgataaatgt acttcaaggt 180  
 ttggcagaag acggccgttc attctggcag gatctcttat gatatgtctg gctgtgatat 240  
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<210> 2056  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555911H1

<400> 2056

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 aaaatgttaa tatatacaaa ataatggagg cagattagt ttagcaacac tcaaacatta 180  
 aaggctcaat aatcaciaag ccgatggatc gatcataatc agggactgat gaggatag 240  
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<210> 2057  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555913H1

<400> 2057

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 acaaactggg tgggtgcat tgcgcctaaac cctctctgga ccacacaaat cgagggagtg 180  
 cctccccctc attcttattc tgcgaaaccg gctgaagtat gctctgacat accgtgaagt 240  
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<210> 2058  
 <211> 146



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<400> 2059

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ccactgtcaa	agcggtttcg	tcgaagagat	ccggccggcg	ccggagccga	agcctcgcca	180
cgccatcgac	taagtccttt	ccccgatgat	cctcttttgc	tccggcgaca	gggcttccgc	240
cgcgtagga	gagaagcttc	cggcaaccgc	tccccgttca	accccgttat	c	291

<210> 2060

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555916H1

<400> 2060

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cctttttcta	ctgccccctcc	tctccctccc	tcttggttta	acatcttcca	ttcccttctc	180
ctctctgtgt	attctagggt	tagggttctt	ctgactccac	aatggccggt	tcaaccactt	240
tctccgctcc	caaattggag	gccctattcc	tcaaagtctc	ttcctcctct	t	291

<210> 2061  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555917H1

<400> 2061

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 ggggcgaaca agaacatcaa caacataagt acagtgccgc tcccacttcc tatgtttacg 180  
 atccggaagt tcattggaca tcgtggctcg tgccgctggt tgtggcggtt aacgttgtgg 240  
 tgttcttgtg gtcagtatgt caagattgcc ccaggaaaaa ct 282

<210> 2062  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555918H1

<400> 2062

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 ggggcgaaca agaacatcaa caacataagt acagtgccgc tcccacttcc tatgtttacg 180  
 atccggaagt tcattggaca tcgtggctcg tgccgctggt tgtggcggtt aacgttgtgg 240  
 tgttctttgt ggtcagtatg tcaacgattg ccccaggaaa aatct 285

<210> 2063  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555919H1

<400> 2063

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 ggaacaacaa ctctcttta accgttggac tagagggtcca attctgctgg aggattatca 180

tcttgtggag aagcttgcaa attttgatag ggaacgtatc ccagaacgtg ttgtccatgc 240  
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<210> 2064

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555920H1

<400> 2064

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acaccaaggt ccattcacct nctgttctat tggatcctct ttgagaatgt gatgtctttg 180  
caccgtagca aggcaacatt tataggctct ttagagtatg ggagggctaa tgaatgggtt 240  
gtgactgaaa aacttggtga ctctgtcaac aataata 277

<210> 2065

<211> 230

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555922H1

<400> 2065

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gttccctctc ctggagttcc tgcaggagcg gcagtctaac gacgacgacc acatcctgaa 120  
ggcgaagatc gaccttctca acaacaccaa catgggtgac tacgctatgg acatccacaa 180  
gagcctctac cacaccgagg acgtcccgaa cgatatggtc gaccgcccgcg 230

<210> 2066

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555923H1

<400> 2066

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ccttcttcca ccgtatcata ggatncggac cactcctaac acgtttttgc ctttttaatt 120  
aattectttc tttttattct tcccttccct gagtcttcca cattattttc cttcntctca 180  
tcaagaaatt ttggtggcag accctgtgag aaatattaaa gacgggccac tttcaaaata 240  
taccatggag ccacaattag aatccccctt gggaagaaaa gattctacag gaa 293

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<223> Clone ID: 700555924H1  
<400> 2067

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gaaagaatgg cagcttgacac tgtctactgc aacacaatct canagcacia attgctccat 120  
ctcaacccca tcaaagacgc aactcagttt tttcaccaaa agcaggtagt tttctggagg 180  
aacagcaaga agggcagctg cagcagcaga agaagctatg tgataacatg tgcagcaggt 240  
gactcacaga cagtgggtgat tggcctggct gcagactcag ggtgtggggag agc 293

<210> 2068  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555925H1  
<400> 2068

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tgaagaggga ccacaaagat agctgcggcg gcggggcgcn cggaggggact gtgaagggtg 180  
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<210> 2069  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700555926H1

[illegible]

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<212>      nucleic acid
<213>      Glycine max
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<400> 2070

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<212>      nucleic acid
<213>      Glycine max
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<400> 2071

750

<210> 2072  
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 <213> Glycine max  
  
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 <212> nucleic acid  
 <213> Glycine max  
  
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 ctctgaagac ctctattctc ttccctccc cttccacttt cccgagaaaa ataaactttt 180  
 ccgtcaattt tctctccacg gtttccttct tcctcacaat ggctccgaac ttcgacaatc 240  
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<210> 2074  
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 <213> Glycine max  
  
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 tccatgggaa ctgggaagta caccatggca atgatttggt gtatggacca gacagagtga 180  
 natacttggg acgcttctca gctcagacc ctngcatact tgagactagn attccatggg 240  
 gattatggnt nggacactgt ggcttatctt gctgaccenn aag 283



aaagtggatat tccaagtatg aagtgggtgtg gcactga

277

<210> 2078  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555938H1

<400> 2078

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ttcaaccctn tgatgaaaac aaattcaact taccaaagtc gggcaagaag aggtcctctt 180  
ccaatttgaa gctagcgagg atggacaagt ccagttcttt ccaaagtctc cagttgatgt 240  
tgacaattct cccagctttg ttgccatcaa tgtcagtcct attgagt 287

<210> 2079  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555939H1

<400> 2079

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atttaagtct aagattaatt aaaataaatt gatatatagt atgttattag tgttttgtaa 180  
aaagaggagt cttacatgac ttaacttgat gacattaatt tgtttctaac atctatgtga 240  
cactactaat tcatgagtna tagagaattg aactaaagtt caaagaacat 290

<210> 2080  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555940H1

<400> 2080

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<223> Clone ID: 700555943H1

<400> 2083

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ccataagaac tcaacatttg aagagctcat gtcattgtata ccacaaactc aataatatct 120  
tttcattgtc aaaacaacag tgctactttg aggtcctcac aacaatatta aagacattaa 180  
aacataggga gaaagagtgt cttcaaatga atttacatgt ctgtttacaa tgtttatttc 240  
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<210> 2084

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555944H1

<400> 2084

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tatttggcag tcatggatta ttcatcatgg tgattaacac ttccttggat ctcaacatta 180  
atccccacag gcttcatgaa gaacttccca aaaaggaggt ggaaaacaac tttttgtcat 240  
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<210> 2085

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555945H1

<400> 2085

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ccaatctcca tttggcttct ccagaaaagc tcctttcttg ttaaggcagc tgctaccccc 180  
cctgtcaagc aaggatcaga cagacctttg tggtttgcac caaagcaaag tctttcttac 240  
ttggatggca gccttcggg tgactatgga tttgacctc tgggacttt 289

<210> 2086  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555946H1  
  
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 cgatggccat aaaggcgatt gaactgttga aggggtgcgga tcacaagaag aaataatgga 180  
 agtgcttgct gcggtggctt cggatttggg ggatgtgatc gatgatgtga acaccttgca 240  
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<210> 2087  
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 <212> nucleic acid  
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 <223> Clone ID: 700555947H1  
  
 <400> 2087  
  
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 gttgatcatg aaattaagat ggaattggac tcacaaatga gtccacttca caacttagtg 180  
 ccactgaata agttctgggt atcatgtagt cgttcatatg gagttgaaat aattgtgagt 240  
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<210> 2088  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700555948H1  
  
 <400> 2088  
  
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tggtgccatc ccactttact ggaactacaa ctatggaaaa gccggggaag ccttgaaggt 180  
 ggatctgttg aaccatccag aatacataga acaaaacgcc actctagcct tccaggctgc 240  
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<210> 2089  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555949H1  
 <400> 2089

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 cattggacac accaagttca caggtgcttt aaggaacaga actgagcctt tggaaatcaa 180  
 agaagaatat gctcaatgta gtgatgaatc attggacctc aacaatgaga agattggggg 240  
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<210> 2090  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555950H1  
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 gttgcagaag ccattanatt ttcaataaaa tntcctcca agtgtnttcc tacgangata 180  
 agaatggaaa gtaatcttaa tcntagcata gagggcnaca ataaagcgtc taggggtgcc 240  
 ttngttgtcc tagaaggctg gatcgttctg ggaagtcttc 280

<210> 2091  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555951H1

<400> 2091

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 catcatgatt gatctcggaa cgggtgacaa caacaagatc aactgggctc tcaaggacaa 180  
 gcaggagtgc attcgacatt gttgagaccg tctatcgtgg agccaggaag ggacggggtc 240  
 tcgtcatcgc tcccaaagat tatccaccaa gtaccgttac tat 283

<210> 2092

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555952H1

<400> 2092

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 aganattcta tggtgnaaat ctttcttggtg ttcttatnna tnacttgntt atatnattta 120  
 ggaagagcgg ccccccttt ttttgtaaga cattgtcaga nattcaagan acccatgaaa 180  
 ttataaaaa aggaacaana atagatgtcg aaaaanatnt gcnangagta caaactatac 240  
 nnaancaana nngntccaac aataaangag ggttttcttt ctc 283

<210> 2093

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555953H1

<400> 2093

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 ccatcgccat tggtttcatt gtcggtgtaa cattttgttg ggtggggcct tctctggagc 180  
 ggccatgaac cccgctgtga catttgggcc tgctgtcgtg agctggacct ggaccaacca 240  
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<210>      2094
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700555954H1

<400>      2094

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caagtttttg aagtataaag atggcagaga cattcctatt cacctcggag tcagtgaacg  120
agggacaccc tgataagctc tgcgaccaat ctccgatgct gtccctcgacg cttgcctcga  180
acaggaccca gacagcaagg ttgcctgcga aacatgcacc aagaccaact tggtcatggt  240
cttcggagag atcaccacca aggccaacgt tgactacgag aagatc                    286


<210>      2095
<211>      70
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700555955H1

<400>      2095

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aaacatgggtt                                     70


<210>      2096
<211>      290
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700555957H1

<400>      2096

caacaagcaa cggtcacgcg cagttcacc cttctcacct ggcgtcctct ctgnatttcc   60
gacaaggatg gcattttctc tcaagcgctt tcaaacgccg ccggcgaaga atccgcgcgc  120
gcggcgaggg agtcatcaac aatgcactga gaagctgccg tctcagtctc ctcttccgga  180
cgagggtccc gcgagcaatg cctcgtcaa agccatccgc agagcgcaga ctctgcagaa  240
gaaacgcggc gacacgcact tggccgtcga ccaactcatc ctccgccttt                290

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<210> 2097  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555958H1

<400> 2097

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 ccactacatg cagtccttgg cggaggaaag cttgctgata tattgctatg gaaagacaag 180  
 atatcatcgg catcaatggt agctgggttc tccatcattt gggtcctctt tgaagtggtc 240  
 gaatacaatt tcttactcta ctatgtcaca tcctcatggc catatg 286

<210> 2098  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555959H1

<400> 2098

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 ggggtcttgcc tatgatattc cagacgacaa caagacatca caagaggaaa gggtttggtt 180  
 gactcccttt tccaagctcc acaggatgct ggaactcact atgcagtcac gagctcctac 240  
 gagtacctca gcactggact tcgccagtac ttggacaaca aaatgg 286

<210> 2099  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555960H1

<400> 2099

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 tgtcagcgag tatgaagcta ttgcaaagcg aagttgccaa agatggtggtt tgactactac 180

gcacatcgggtg cagaggacca gtggactctg caggagaaca gaaatgcctt ttccagaatt 240  
 ttgtttcggc cagtattctt attgatgtga gcaagataga catcac 286

<210> 2100  
 <211> 221  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555961H1  
 <400> 2100

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 cttcccgcca tagatgtcgt cgaacttggtg gtgagggaaat tggaaacgga tccgctgttc 180  
 aattcggggc gtggatctgc cctgacagaa aaaggaacgg t 221

<210> 2101  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555962H1  
 <400> 2101

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 tatcccaaaa caacgggaca gagatagctc ttcttcgatg gcttccaagg cgatgagcgt 120  
 ggcagcagag aagataggga cggcggcgcg cgccaagccg tgtcgctaac ggacgccgcc 180  
 gcctccagaa tacggcagct actacagcag cgtcagaggg cttcttgaa gctgggagtc 240  
 aagactcgcg gctgtaacgg cttatcctac accctcaatt acgcagat 288

<210> 2102  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555963H1  
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65421 62666

ccgccccatt ctacgacccc gccgagctcc gaaagtggtc cttcttccga gccctcatcg 120  
ccgagttcgt cgccaccctc ctcttcctta cgtcaccatc ctcaccgtca tcggctacaa 180  
ccaccagaca gccaccgccg ccgagccctg cagcggcgtc ggcgtcctcg gcatcgcttg 240  
ggcctttgga ggcattgattt ttgtcctcgt ctattgcacg ccggc 285

<210> 2103  
<211> 102  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555964H1  
  
<400> 2103

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cncntgcagt gnntgaanat cnnngtctgc atcattgatg gt 102

<210> 2104  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555965H1  
  
<400> 2104

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agtgatattg gtcaagatgg atcgagagtg agaactcaag cacaaggacc tcaacaaaga 180  
gcaaaaggag acctgagaaa agatcaagaa ggagatcatc ctccatggaa aaccttggcc 240  
ttatggatat tggatacatg atatattatc acaagcctgc 280

<210> 2105  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700555966H1  
  
<400> 2105

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 caacatcgtg aacgagcttg ggttcttcga atgttgatgc accttgccctc aagtgaagat 180  
 tcagatgtga gagaagctgc ccttcgtggc cttctccagc ttgctcaciaa tgcgaaagag 240  
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<210> 2106  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555967H1  
 <400> 2106

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 aaccaggggtg tttcagaatc atcancactc aattccacta acactcatgg ctgacatgaa 180  
 gtcagtgggtt aaataacttg atgaccttcc cacggnatc aaaatgcgca acaaaccctc 240  
 cgtccctgag agtggctata gggcggaat gccacaagt cct 283

<210> 2107  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555968H1  
 <400> 2107

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 aatagaaatg ggctccgaat tgattttcag aggccacgag gctcagcccg tggacgactc 180  
 gtactcgccg aagccccaca agccctgggt caccgtgact cgcccgattc actacatgct 240  
 ccgcgagcag cgactcgtct tcgtcctcgt cggcgatc atagc 285

<210> 2108  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555970H1

<400> 2108

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cctcttcatt ttgcagcttc caagggccat aacgagattg tggcattggt gcttgaaaat 180  
ggagctgatg tgaattcgag aaattattgt gggcagaccg ctttgatgca agcttgtaga 240  
tatggacatg ggaagttgta cagacccttc tgctcttcaa atg 283

<210> 2109

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555971H1

<400> 2109

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agtccatggc tggttcccc accaggagac caacaatgac attacctcca ttgctagcaa 180  
cgggtgaaga gtgcaatgca tgcaggtgtg gccaccagtt ggcaagaana agtttgagac 240  
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<210> 2110

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555973H1

<400> 2110

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tcttgctaaa tataaccagc tcttgagatt gaggaggagc ttggtgctga agcagtgtac 180  
gccggagcta acttccgtac ccccggtgaa ccctactaaa gttttcaagt ggaaaaaacc 240  
tgagatcca cagagtttg agcattgaga tttgggtgcg cggtttt 287

<210> 2111  
 <211> 233  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555977H1  
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 cataacaaaa aaaaaaagaa catttcagct ctaagcctct aaccttatga gttttgagct 180  
 ggtttggttaa actgtgtttc tcttccaatc tattcccttn gattccatng gtt 233

<210> 2112  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555978H1  
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 gaggcttggc aatgaggcct caatctccca aaatatcaag gtcaaaccog gtcaactgta 120  
 tgctctaatt cttggggcct caaggattgt gcacaggatg aagttttgag gatctctgtg 180  
 cctccacaga ctggtgatgt tcctttgcag accctttata gcctcaatgg tgatgttatt 240  
 gcttgggggt ttaaggccac ttctagtgtt gtcaaagtga cttt 284

<210> 2113  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700555980H1  
 <400> 2113  
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 ttgggangtt ttgatctaca ttggccttaa tcctgttgac aagaacatgg agaactttgt 120  
 tagtattatn ntgaaccgtg ttaagatgnt atcnagggga aagnttcngn nacntntggg 180

tntntngnac catccnga acataganca aaacgccact ctacgcttcc aggctgcana 240  
 tggnatngnc gaccnacca gcagngcacc tgaccatnnc nc 282

<210> 2114  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555982H1

<400> 2114

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 ccaccaccaa cgccgccgca gccccgccgc gccagctctc ccagaaggaa gccgacatcc 120  
 agatgatgtt agccgccgac gtncacctcg gcacaaaaaa ctgcgacttc caaatggaac 180  
 gttacatctt caagcgccgc aacgacggga tttacattat taaccttggg aagacatggg 240  
 agaagcttca gttacgagct agggttattg ttgcattga 279

<210> 2115  
 <211> 167  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555983H1

<400> 2115

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 caatgantag cttacgtggt tcctctcagg ctgtgttgga angtagcctt ggctccacac 120  
 gcttgaatgt ggggagtgga agcaggtggc ctacgtcaca cgtgcag 167

<210> 2116  
 <211> 90  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555984H1

<400> 2116

gggaaagcac ccgtttaact cggagcnacc cctccctcgn ctgcatgcac cacggcttca 60  
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<210> 2117  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555985H1

<400> 2117

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atgttagtcc aaatgtgctt ggagcatttt gcatagacac tggattacct tgtgacttca 120  
atcatagtac atgtggaggg aagacgaatt atgctatagc cggggacctg gctaccaga 180  
tgaatttgaa agtaccgca ttataggaga aagacaattt agaaaagcag tggatctttt 240  
taatgctgca gatgaagaga ttgaaggggg cgttgatttt c 281

<210> 2118  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555986H1

<400> 2118

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tgaaaaaac aaaaacacga naaatcatcn nnnnnnnnnn nnnnnnnnnn nnnnnncttt 120  
caactaatat ggcaattgaa aaccaaaca cactgtcaga gaaatcaagc caaagaacag 180  
gagaatcatg ggtgctggag gccctgatga tgacgacaat aggtggccac cgtggttgaa 240  
gccactgctg aaagagagct tctttgttca atgcaagttg catg 284

<210> 2119  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700555987H1

<400> 2119

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acaacatctt ctctggaact tcaatgtcat gccctcatgt tgctgctgca gctgttcttc 120

tcaaagccat acaccctaca tggagactgc tgctataaga tctgccctga tgactacagc 180  
 catgacaaca gacaacacag gtcattccatt gactgatgaa actggaaatc cggcgacgcc 240  
 tttcgcaatg gggctctggnc acttcnnccc kannanannc agcag 285

<210> 2120  
 <211> 93  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555988H1

<400> 2120

tcgtcaagaa ggaaatcgat gaaacacctc ttcacattaa tactggttta caactgcctt 60  
 agctgctnaa caccgggagt gaccanttct acc 93

<210> 2121  
 <211> 140  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555990H1

<400> 2121

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 agatgccaaag ttccgacatg ccttccaaaa ctctaaaact ctctctctcc gacaacaagt 120  
 ccttaccctc ttgcaacta 140

<210> 2122  
 <211> 58  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555992H1

<400> 2122

cctccttgcc actgccagan tgcaccacc atggganacc gtcacacccc aagcctcc 58

<210> 2123  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700555993H1

<400> 2123

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 gtttgggggg ggatctacat ctctagggat tatcactttc cttactctca tcagcctggg 180  
 aagaaatcgt tagacattca ctatntggtc tgtctttgaa cttcactttt ggttccaaag 240  
 atggggctat gattttgaga tcaggtagct tcaagataag aga 283

<210> 2124

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555994H1

<400> 2124

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 aaacatcact tgcagcaatt cagtgaatat atatgttggg attggtgttc catggcttat 180  
 tgatactttg tacaacttca tagcatatag agaacctctc cgaatccaaa atgcagggggg 240  
 actaagcttt tcgttgattg ttttcttctc cacttctgtc ggg 283

<210> 2125

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700555995H1

<400> 2125

gaaaaaaaaa gcctacacca ccctcttctt ccctattccc ttctacttct ggcgccattt 60  
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 catggaatca gcagcaacag cattgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngagcct cagccaatga acatgaatgt 240  
 caacatgaac atgaacgtgg tcaacaccac agaaggaaca acacca 286



<210> 2126  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556001H1

<400> 2126

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 tatgcaatgc aactgggctt tgaaatgggtg aaggagaccg aatactatga cgtgctgggt 120  
 gtcagcccta cggcatccga agccgagatt aagaaantta ttacattaag gnacggcaag 180  
 tgcattccaga taaaaaccca aatgaccctc ttgctgcaca aaattttcag gttttagggt 240  
 aggctaccaa gttctgagtg acccagctca aagacaagct tatgatgctc atg 293

<210> 2127  
 <211> 216  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556002H1

<400> 2127

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 ggggaatgatt ccctaactgg tcatcatatc tacaactatt ggaggcaaaa atggggaacc 120  
 caaacagact atnagctaca tggcagaacg ggttgtagga actggatcat tggaatcggt 180  
 tnccaggcna aatgcttgga aactggggag gcatgg 216

<210> 2128  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556003H1

<400> 2128

gcgtggcagg gaggaagaag gtagtagagt tgtccggcga cggcgcaatt ctttccggtg 60  
 acggnacggt ggtcgcggtt tattagccaa ttncgtccac tttttccgc aacggtgnaa 120  
 ttggaagcac aaacctgctc tggtctnctg cacaaccga agaacaagtc tcaactagga 180

aaccaacaac actgtgtgaa gnatgcaant caaaccatc gaaatanacg tgccctggtt 240  
gctcettaca tcgtgcagtc ttccatgcgt gaagtct 277

<210> 2129  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556004H1  
  
<400> 2129

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tgtcactgag tcgttgtctt gcggaggata atggacttgt tatgaacttc tacaaggaat 120  
catgccctca ggctgaagac atcatcaaag aacagtcaag cttctctaca agcgccacaa 180  
gaacactgct ttctcctggc tcagaaacat cttccatgac tgtgctgttc agagttgtga 240  
tgcttcaactg ttgctggact ccacaagaag gagcttgtct gagaagg 287

<210> 2130  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556005H1  
  
<400> 2130

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catgttcata ttttccctt cgtgcccgtc aagtttctga ttctcttttt caattccttt 120  
ctctttcagg tgattttntc tccacgataa agtgcgattt cgccggtgtc gttttgccgc 180  
aagatggtgt cgttttcggg aatataaaat caggggtgaa gttctttctt cagcattgaa 240  
tctttggtta cataggttgg tttctttaga actcgattca atttc 285

<210> 2131  
<211> 212  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556006H1  
  
<400> 2131

tccnncagaa caaaaatagg tcttcttctt ctctgatcta ccaaagcttc aaattctcct 60  
tagtttggtt tgtctgtnag ttggagtgtg atgtcgccgc cgacgctggt aacggaggag 120  
gaggggcgga gaccgtggcg tccgattctt cgcaatcctt ggactgtttc tctcagaatg 180  
gtgctggatt gaaagaacgg aattattagg gt 212

<210> 2132  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556007H1

<400> 2132

ccgtggatga agagataaac cagacagtaa ttgaaggaat gggagaatta catcttgaaa 60  
tcattgttga tcggctcaaa agagaattta aggtggangc taacgttggt gcccccaag 120  
taaactacag ggaaagcatt tccaaaatct caaagtgaag tatgtgcaca agaaacaatc 180  
aggtggacag ggtcagtttg cagatatcac tgtccggttt gaacccatgg acccaggtag 240  
tggatatgag ttcaagagtg aaatcaaagg aggtgtgtac caag 284

<210> 2133  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556008H1

<400> 2133

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gaccgtttcc attttggtcg ccacttttnt cttggaccgg gccgggcggc gcgtgttgct 120  
gatttgnagc gttagtgggc tcatactctc gttttgactc tgggcctgag tctcantgtn 180  
gtggaccatt cgcagaccac gctgaattgg gccgttgggc tcagcatcgc tgcggtgctg 240  
tcctacgtgg caactttctc tatcggtctt gggcccatca cg 282

<210> 2134  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556009H1

<400> 2134

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 ttactgggtc gatccgctcc aacagtcatt aatgaacaca ttcaagtgga aggtgggttag 180  
 atcctgaagc ttctcccagt gcatttcatt tcttctttgt ccagtatctt acggatagcc 240  
 gaacagtaga tttgggttgtt tgcagccttt gctatgggaa attga 285

<210> 2135

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556010H1

<400> 2135

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 ggagtttgct atgtcctttg acttggcgct aaactgtccg cggagagagc catgtcgggtg 180  
 tcccctctaa tatggaagat caaacggttc ctcaacgtgg gctccgagaa gaagctgaga 240  
 aaagctatta aaatgattga catcttagcc agagaagtca taa 283

<210> 2136

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556011H1

<400> 2136

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 ccatggctgc ctccgtcctc cactgtcgga gctgtcaaca gagctctttt gaacctgaat 120  
 ggggtctggac ctgggggttc agtcccagt catccttctt tgggagcagc ttgaagaagg 180  
 ttattggctc aagggtcccc aacacaaaga tttcctctgg aagcttcaag attgttgctg 240  
 tagaagagaa gaaagagatt gaagagaccc agcagaccga caa 283

<210> 2137  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556012H1

<400> 2137

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 cgcgtcgccg ccgcacgctt cctcgtcgag atcgggtgcga cgggaaggcc gcgcaggagc 180  
 tcgcacgtgc aatgaaggat ttccctagca ggcgcgggga taaggggtgg gagagcttcg 240  
 actacactct ccccgagat tgtctttctt ttatgtatta ccgg 284

<210> 2138  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556014H1

<400> 2138

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 ttatgactca tttaatttgt ctcatttatt taaatgctcg tgcttacatg tacagacact 180  
 attaaatgtn atttcaccta tattgtataa tattgggttg aatactaaga ttatttnnat 240  
 tatttttttac ataagatttc aaatacgagt ttcatagaca aggaaa 286

<210> 2139  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556015H1

<400> 2139

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 gnaaccagtt gctgctagta tatgagtaca tggagaacaa tagtcttgct cgtgcacttt 120

ttggtaaaga anatgagagg atgcaattgg actgcccaga agantgaaaa tttgtgtggg 180  
gattgcaaag ggattagctt atcttcatga ggagtcaagg ttgaaaattg tgcacagggg 240  
tattaaggca accaatgtct tacttgataa acatctgcat gccaaagatc 289

<210> 2140  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556016H1

<400> 2140

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ccatctgata accctttcct ggantctntn tcgtggttgt tgctattctg agtgatgggt 120  
atgccctgcc gntgttccca cacctcccac acantgaaat catcatcanc agcttcttnc 180  
gccacaagtc ttagatcaac aatttncgtc aattattcca aaaccacctt aagagccttt 240  
tccaaatggc cccttaaaga tcgaacttgg tcggagtaaa catggc 286

<210> 2141  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556018H1

<400> 2141

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gtgcaggccc ggttcgggtt tggcaagaag aaacngccgc cccgaagaaa gtttccagn 180  
ggtcgggctc tagtccgat aggccctgt ggtatccggg cgccaaggcg ccgagtacct 240  
ggatgggagc cttgtcggag actacggatt cgaccattt gggtag 286

<210> 2142  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556019H1

<400> 2142

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ctcgcgggtn ttgcaattcg ataacttctc atgtcctatg ggaggaagtt ggagtttgat 120  
ttcattgcaa ggttcttgat ctgcaccagc acttcacttt ttacccggtt atgtgtgttg 180  
ccagggtcaa cttgtatctg cagaccattc tgctattgtt ttcgaggcgt aaagtgcagg 240  
atagagcctt gaacataatg gggatccttg tgttttg 277

<210> 2143

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556021H1

<400> 2143

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tngcattggt ccgagaccaa ctgcctcgac tgtccaagac cttcttcacc agcctcctca 180  
ctaacctccc tatectcgac ggcgagggtta acctcttcnt caaaacgacg tcgcttcgct 240  
ccctcgacgg cgaggcctac atcaatgtcc gaaaggggaa gatc 284

<210> 2144

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556022H1

<400> 2144

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ggatgcaatc taactatggt ttcgatggtc aactcaatgc atgttggaaca cataaaatga 120  
ctgnaacaga gattgaggtg atcaaactctn aggttttctt gtttcagtca tccatggcag 180  
gcatgatata attgctcaga tatattatgc aaaaagactt ggctgaaagg cttcatccag 240  
tggctagaat ggtagatctt cacggaggtc atttagtaag tc 282

<210> 2145  
 <211> 208  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556023H1  
 <400> 2145  
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 accctctnct cttacaacct ntgcacgat cacaaccca tcacacacca atgttctcga 120  
 tgtctnttct tctctccacc aagcccacca atcctctcnt tcnnccana acttctagaa 180  
 gagcaatctt cagaaacaga aactccca 208

<210> 2146  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556025H1  
 <400> 2146  
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 natgggtcgg cttaatctcc tacttgtgtg gtcactctct ttaacacttt tccttaatta 120  
 tctanaccca actctgcca gctcagtcna aaccactatg ctaacatatg ccccaacctt 180  
 gaaagcatcg ttagacaagc cgttactant aagttccaac aaacctttgt caccgtccca 240  
 gganccttc gcctattctt tca 263

<210> 2147  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556026H1  
 <400> 2147  
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 ggagcaggaa gcctcttaag gtgncgatga ggccatgatt aggggaattg agaagtacat 180  
 gcgaagtgga agtncangan gganaagaag aagcccgncc naatgtaact gcttggcata 240



atgttccacg cccggagng annttaangt ntngtctgc tc

282

<210> 2148  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556027H1

<400> 2148

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ctcgtgtnat gggaacttan ggttatatgg cccctgagta tgcgtcaagt ggcaaattga 120  
ctgagaagtc tgatgtatat tcttttgggt cgtgcttttg gagctaatta ccggaaggaa 180  
gccagtagat gcatcccaac ctttgggaga tgagagotta gttgaatggg ctgcaccttt 240  
actgagtcac gactcgaca ctgagncatt tgatattttg 280

<210> 2149  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556028H1

<400> 2149

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gaggtgttgg tcttttaaag tggagaatgc aaagtactga tgagtcaatg gtgccgctga 120  
caatcaactg ttggccctct tcttctanaa cgaaacttat gtcaacattg aatatgaggc 180  
ttcatcaatg tttgatctgc ggaatgttgt gatctctgta cctcttccag ctcttcaaga 240  
agcaccatct gttaggcaga ttgatgggga atggaggtat ga 282

<210> 2150  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556029H1

<400> 2150

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aaattcctcc cattagggnn nnnnnnnnnn nnnnnncant tcatgttctc ttattcttga 120  
 ttgattctct ctattcgatt cgattgttct tggaaaccga gcttcagccc aagctggacc 180  
 ccgcgcgga ggttggttagc ggtggcgggtg gggattcgga gaagtcgcat gtcagtnatg 240  
 tcaccgaggt tcgcnacgtt gacntggcgc agcaaacggc g 281

<210> 2151  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556030H1

<400> 2151

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 tgccaggatt cggttgattn atcaggacaa gacaaatatn aactccgan ntaccgattt 180  
 ntgnttcgct ntagcnnaa ggn cattgtt ncncaaataa tatctgctaa gcattgccgg 240  
 ngatttagtt cttgctacag catattcaca tgagctgcna cgatntgg 288

<210> 2152  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556031H1

<400> 2152

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 gatattggaa ggtttgatgc caaaaatggt gaggaggaag acgtttgaat ctactgagc 180  
 atgaggcctt cgacattgtt ttcatagaag cttctaaggt tgatggaata tcaagtccgt 240  
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<210> 2153  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556032H1

<400> 2153

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 aagattctct tcttcttccc cgccggtttg ccctttnaaa gcaactctcc gtcattggcc 180  
 tcagcgaagg actcatcact ttactagaa tcttctcgcc agangctggc ctgcnacgt 240  
 catcgaagca gaaagacatt ctcatgtttt ctacgangcc gaacccgata tctgg 295

<210> 2154

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556033H1

<400> 2154

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 aaactggcta tggtagcgt tcttcggagg taaatgcgca agttttaggc ttgctgtgga 180  
 agcacacaac atccgagcct taaaacat tctgaagng tgcgttgaac caacaaagga 240  
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<210> 2155

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556034H1

<400> 2155

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 gaagctattg caaagcagaa gttgccaaag aggtgtttga actactacgc atctggtgca 180  
 gaggaccagt ggactctgca ggagaacaga aatgcctttt ccagaatttt gtttcggcca 240  
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<210> 2156  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556035H1

<400> 2156

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 agttctactg atgaagagtc ttcaagaaac caaggaggga aaccatcaaa gcaaaaattt 180  
 caagagttta tgtcaggact gaatcatctg atactagcct tattgtgaaa gatggatacc 240  
 aatggaggaa atatggacaa aaggtgacca gagata 276

<210> 2157  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556036H1

<400> 2157

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 actttccggg agttgttget attagtgtag aaatgagtac gctggatgca acaagggctg 180  
 aacttgggtct tcttgtttta tatttgggca aggctgaagc aagggacaaa atatgcaggg 240  
 caatacaata tggttccaaa tttttgagta atggggaacc tggtta 285

<210> 2158  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556037H1

<400> 2158

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ttcatcgctg agaagagatg cgctcctcta tgctcctgga agagaggaca aacctgagcc 180  
 accaccagag ggtcgcttgc cccgatgccac taagggttct gaccatttga gagatgtgtt 240  
 tggcaaagct atggggctta gtgaccgaga tctcgtngct ctg 283

<210> 2159  
 <211> 96  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556039H1  
 <400> 2159

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<210> 2160  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556040H1  
 <400> 2160

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 agagtttctg atctgggaac tttctcaaaa ttgattatca aacccttggc tgtctgagca 180  
 tactgaatta aatttgtcag attttttata atttcgtttt tgaagatttt taatgtggtc 240  
 tacttaataa tctcattgtt agcttttaaat tttgttcca 279

<210> 2161  
 <211> 120  
 <212> nucleic acid  
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 <223> Clone ID: 700556041H1  
 <400> 2161

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<210> 2162  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556043H1  
  
 <400> 2162  
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 gacaggaagg acttcttaca agagatncag agtggttgag aggaagaaag ttggtctcaa 180  
 gaaagctcgt aaagccctc aatattccaa gcgttgaggt tgggatgtta catgtatggt 240  
 ctgtcttttc tttctctctg gtgtctctgg aaatgagtt 279

<210> 2163  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556044H1  
  
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 nttgggnaac cccatnaacc tcagtgtgcc acaaggccag ctccatctgc ctctagccct 180  
 gcctccttca agantgtggc tcttttcncc aaaaagaagg ctgcacctcc aaaaaaagct 240  
 gnagctgctg ntctgcca tgatgagctt ggcaagtgg 279

<210> 2164  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556045H1  
  
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cgaggagctt gcaaattgcaa cgcaagtccg ggttctttct tgcctattgt gagggagaag 180  
 ccaactgttg aacttgtaaa ggttacagat gacatgaagg cttttaaaagc ttattacaag 240  
 cttcgacttg aacgcacaaa caaacgccat tatggtgcca ga 282

<210> 2165  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556046H1  
 <400> 2165

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 nttgcatact tttgattatg ccaggcattt cctctcctgt tgcagcagaa tgcttggnat 120  
 ttcttaccat ccaagcgtgg ctacattggc cttgagtact atggaagaac agtaagcatt 180  
 aagattcttc ctggttggtat tcatataggt cagctccaat ctgtcatgag tcatcccgag 240  
 acagaaagca aggttgcaga gtt 263

<210> 2166  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556048H1  
 <400> 2166

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 aagcaattaa ttaaaatact gaatttggtg taattctttc tcaaataata ttagttttac 180  
 aattatttta tttctttttc cttggattgn agccgggggt tcttggtgtg agagaaaaac 240  
 ctttattctc tggtttggga acatctgggg tctcaattta gtggaagtt 289

<210> 2167  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556049H1

<400> 2167  
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 gacaggaagg acttcttaca agagattcca agtggttgag aggaagaaag ttggtctcaa 180  
 gaaagctcgt aaagccccctc aatattccaa gcgttgaggt tgggatgtta catgtatggt 240  
 ctgtctttct ttcctcctgg tgtctctgga aatgagttac attt 284

<210> 2168  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556050H1

<400> 2168  
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 agangtagtg nttngaaatn gcgaatngac tacnttcgca ctnttccgtg gcncgaattc 120  
 tgnacanca gcangttggt acctntgccc gatcctgggt ctagagggtc caaantcnnn 180  
 gtctgctgtg gnatctaata gttgnnctgt tccncatnaa gattgnacca ctttgagnca 240  
 caatctcaag gncaacntgg gtgtngtggt gccaaangagt tagaaaa 287

<210> 2169  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556051H1

<400> 2169  
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 ctcatcttaa gaaggcactg cataatctcg tcattatctc acaatgcgat tcggatcctt 180  
 aaatcggttg ttggtttgaa ccaaacgata agcagtgata tgattatgat gttgtgtatt 240  
 tttaattatt tatttggtat ctgtttccgt catatctttc aa 282



<210> 2170  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556052H1  
 <400> 2170  
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 acaganaaat actancacca cctcagtant ctanaaaaaac ctccccctctt tcaattncac 180  
 tcaataaaca gnttctcgac gaaaactact cgctcggcaa atccctnacg agcaagcacc 240  
 tcattcagct agcttcanag ggtgaccaca aaaacgccat caacg 285

<210> 2171  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556053H1  
 <400> 2171  
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 acaaggaacc ctgatttgggt taggggggatt ggcaagtatt cgaggtcgca gatgtaccac 120  
 aagagggggca tctggggccat caaggccaaa acngtggcgt tttgccccgc cacgatccca 180  
 agcccaagcc cgaggccccg gcccagaagc cgcccaagtt ctacccccgc gacgatgtta 240  
 agaagcccct cgtcaacaag cacaagccca aaccgcgaa a 281

<210> 2172  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556054H1  
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 tcttttttgggt gctacttacc aaggcacact cgaccgatac cgtttctttc accttcaaca 120  
 agttcaaccc agtccaacca aacattagct ccaaaaagat gctagtattt catcctctgg 180

ggtgttacaa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggtcg 240  
tgccttttan gctgccccaa tccagatttg ggacagcgaa 280

<210> 2173  
<211> 223  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556055H1

<400> 2173

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ttaaattggn caataatgtg taacatttta aaatcattaa attggaattc caagtgcagag 120  
ccacttatcc ctgccactca aataaacatt ctcaaagtgt acacattatt gttcaagttc 180  
aagattgtca attcgtcata tttttagaat aaagtgtga tga 223

<210> 2174  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556056H1

<400> 2174

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tgattggaac agaagatgtc ctgcctgaaa agcaatctga ttatctatct tctttgctca 120  
gtcctctttg tcaacaggtt gaggcattgct cataaatgcc aagttattga atgctgagga 180  
gactaatgcc aaaattgctg taatccagca aattattatg gcaattaatt ctctcagtaa 240  
gggcttttagc gagcgtcttg taaccgctag tcgccctgc 279

<210> 2175  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556057H1

<400> 2175

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cctctgttgc atcctctggc tacaagttgc cattgatcaa atgtgaggcc agagttccca 120  
aagccaaaga atctgaagga aggaggggtgc ccttggttctc ttggcagcta cccttttcat 180  
ctctgcagcc tccaattctt ctgccaatgc tgggatcatt gatgattacc ttgagaggag 240  
caaggctaac aaggaattga atgacaagaa gaggtta 277

<210> 2176  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556058H1  
<400> 2176

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gatcaaatgc aggttacaag caciaagtcg cttgccggct ccgaaacanc taccgtggct 180  
gttaagtatg gaggacctat ggatgtggcc aggcattgtc ttaggtcaga agggggcgctg 240  
agaggtcttt tcaagggtt ggttcccata tgggacgt 278

<210> 2177  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556059H1  
<400> 2177

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acaaggaaga gaatccccgt gtgcccata tgcgcaccgg taacgatttc tccacactct 120  
atgcgcctct catccgtgat gggcggttga gaagttctac tgggcaccaa caagggatga 180  
ccgcattggt gtctgcactg gaatttttcg caccgattca attcctgaac aggacgttgt 240  
caagattggt gacaccttcc ctggccaatc cattgatt 278

<210> 2178  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556060H1

<400> 2178

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 aggaccccaa ttgggaagct acgacagttg ctgacgccat ggacgttgag atgcacgcgg 180  
 gtcttgcttc tgaagggtggc agcaagctca agatgttgat cacttatggt gataatctcc 240  
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<210> 2179

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556061H1

<400> 2179

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 gttggggccg aagccgatat ttccatcgaa ggaagcactc cagagcctga tacctccgcc 120  
 atcaggatcc aattagatca actcaatnca agatccaaat tctcgagtct caaatcagcg 180  
 aaaagttgga agaagtgaag aagaaggacg aaattatagc agaaaaagaa aagtccattg 240  
 aagataaatc aattaccata caatccttgc agaatgagat tg 282

<210> 2180

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556062H1

<400> 2180

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 aagangggca tctgggcat caaggccaaa acngtggcgt tttgccccgc cagatccca 180  
 agcccaagcc cgaggccccg gcccagaagc cgcccaagtt ctaccccgcg gacgatgtta 240  
 agaagcccct cgtcaacaag cacaagccca aaccgcgaa atc 283

<210> 2181  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556064H1  
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 tggattcaat ttaaaattca ttagaccttt tggagtacta tgaaggaaga catcaagaga 180  
 attcatgaag aatttcatgc tcatgggtgtg atccctagag gttgcaactc tttttttgcc 240  
 cttattttcta aagtagatga tcctcaaggc ttagggg 277

<210> 2182  
 <211> 284  
 <212> nucleic acid  
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 <400> 2182  
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 gaccgcaacg gcgacgggag aataacgaag aagganctga acgactcgct ggagaacctg 120  
 ggcattctca tctctgacaa ggacctgacc aaatgatcca gaggatcgac gtcaacggcg 180  
 acggttnctg ggacatggac gagtttgggg agctgtatca gaccataatg gacgagcgcg 240  
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<210> 2183  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556066H1  
 <400> 2183  
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 ancantcgaa gaancagagt gcattggagt ggaacaacat ttgaacaagt tgaaaattga 120

actgctcaan gatggcatgt cggctctgtc ttgactgggt tgccnagatc cggcaaaacc 180  
 aactgggcta agaagatctg ttgggacact gacatcaaag gcangttcgg ggtaaacata 240  
 tttgtcacag tctccaaaac acccaacttg aagagcattg tg 282

<210> 2184  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556067H1  
 <400> 2184

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 tagtggtggc cacaaagctc tattccgatt gaaacttcaa gctgacgagt tctttccgag 180  
 cggcaagacc taacgtaanc gctgaatttt atggaaaagt tcacaacact cttcactgtc 240  
 ggtatgctaa ccacaatcca tcaatggcac gtattcgaat ga 282

<210> 2185  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556068H1  
 <400> 2185

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 aaaccatgga cgtgggtcag atgcagagac agtggatcga ctacaccaa tccctcttcc 120  
 tcgagggctt cctggatggt cagtttctca acttcagcag cttcaggatg agaacaacc 180  
 tgactttgtg gtcgaagttg tctctctctt ntttgaagat tctgaaaggc ttctcaaaga 240  
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<210> 2186  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556069H1

<400> 2186  
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 acaagagctc actttcataa agacacgcac acatattctt gttacacaaa atggaccaac 120  
 aagagggtaa cacgtggaca atgccacgtt ctgggcggtt gancagcgaa accgccgccg 180  
 tcttcgccgc tcttactctc tggtgctcac ctccacctcc ctctcgtac tcttctcgt 240  
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<210> 2187  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556071H1

<400> 2187  
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 accaagatca ctccaatctc catttgcttc tccagaaaag cctcctttct tggttaaggca 180  
 gctgctaccc cccctgtcaa gcaaggatca gacagacctt tgtggtttgc atcaaagcaa 240  
 agtctttctt acttggatgg cagccttccg ggtgactat 279

<210> 2188  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556072H1

<400> 2188  
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 gctcaaaaca tctccgatgc ggaggaggga accttgga ttggaatgga ataaagaact 120  
 gtgtctggag ttgctgggcc attgtcatc ttgataaagt taaggacact aagtttcaag 180  
 agattgttaa tattcgcttg ggagatggaa ctactcggcg tggacaagtg ctagaagttg 240  
 atggtgaaaa ggctgttggt caggtctttg agggta 276

<210> 2189  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556073H1  
 <400> 2189

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 ctattctttt gtcattattc agtatcanat ttttttcttg tgactgagct ctgcaaattt 180  
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 tgttgccatt cttgaaggct gtggtcagag taagaaatca tggcaagcta ggcacacagg 180  
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 gatactgttc ttttccgcaa cgcccacgcc acgcccacgc gcttcacgtt tcttttgcg 180  
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 <213> Glycine max  
  
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 cagaaattta aatggaatgt atagggtggg gcaacaatat cataaaaaat acttagttaa 180  
 aaaaacgaaa atactgtatt gcaattgtat tgcaattcga aacgaaatat agttcgagat 240  
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atgcaatatg ctacgaatat cagcataatt ctatgtatgt tgttactcat aattagatta 180  
 gtgcctagtc aaatcttctg cctaaagcaa aaactgggcc tccattttgt tgacagtatg 240  
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 <223> Clone ID: 700556082H1  
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 tgggtggacca tgataaaact tctaaagggc aggactatta ccaagaaggt agccatgtgt 180  
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 aaagaatgca attgaatttg cttgaagggtg tggaagacac tggaaaggga gctggcacia 180  
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 agactagcta agatgaagaa ggaacaattc ttataaattg cagtagaggg cctgttattg 180  
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 cgacgggtcc tcccttgatc aagggatagc ttatgtgttg atgttgctgg ctctgggtact 240  
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<210> 2206  
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<223> Clone ID: 700556096H1

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 aacccagtcc aaccaaacad tatgctccaa aagatgctag tatttcatcc tctgggggtgt 180  
 tacaactcac caaagttggc agcaacggcg tgcccacctc gggatctctc ggtcgtgccc 240  
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<223> Clone ID: 700556101H1

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 caacttcaac caccatttca ttgctcgnc tctanncncc tccaaacgga agccaaagcc 240  
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 gaagttgacc atgtacaacg ctatcgacca ttttaagtacg aagatttgag ggatttcaga 180  
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 <213> Glycine max  
  
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 aggcttgatt gcttgaacgg catctttttg ttcttgttct ttcttcttcc tctcttgcac 180  
 ttacatgggg gctcgttgct ctaaattctc tttctgctgg ttccactctc acctcaaacn 240

264227 6276760

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<223> Clone ID: 700556105H1

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caggagtcc tctccgtcct ctccgaccgc gacttcccct accgctccat tcatatgctg 240  
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<223> Clone ID: 700556107H1

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agaggaagtg ttngagtcgc tgaaatgttc aagagcaggt ttaacatcag acgaaggagc 180  
cagccggctt caagtttttg gaccaaacan attggaagag aanaggaga gcaaactttt 240  
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 tgctggctgg agagaaagct gtgagttgtg gtgttatcaa tgtatcaagt attgaggagc 240  
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<210> 2222  
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tcatntgnta cttctttggg ttggttcgca ttctagtgga gaaaatatct catgtggtgt 180  
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<210> 2225  
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<210> 2226  
 <211> 288  
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 <223> Clone ID: 700556122H1  
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 tgcntgctat ctntnagtna gggctncacg attcatagct tgttcncggc taggtcgtgg 180  
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<210> 2227  
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<223> Clone ID: 700556123H1

<400> 2227

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cagatcttca gcgaggttg gctggactac ttgggcaacc caagccttgt ccacgcccag 180  
agcatcctcg ccatctgggc caccgaagtt atcctaattg gtgctgttga gggttatcgt 240  
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<210> 2228

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556125H1

<400> 2228

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ggacactcag ctaatggtgc tgtggcccaa ggttccatt ctgaagggga tataaacaac 180  
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<210> 2229

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556126H1

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agcaactcct ttccttggcc aaggcaaggg tgccaatgcc aatgctctta gggatgttgt 120  
ctccatggga actgggaagt acaccatggg caatgatttg tggatggac cagacagagt 180  
gaaatacttg ggacccttct cagctcagac cccttcatac ttgaaaggag aattccctgg 240  
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<211>	286
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<400> 2231

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<212>	nucleic acid
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<400> 2232

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 ttttcggcct caagttatct cattcttctg tttcatctat cccttcactt tottactca 180  
 aaggcaccat tttcgccaag gtgaataaag gttcaaagcc accgaatttt acgctgaaag 240  
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 aatgggatgt caatgatcca gcctcagctg aggggttcac agtgattttt aataaggcca 180  
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 tgaatgtgtg atacttaaat tcatatcctt aaaatttaga aagaaaacaa aaagacaaat 180  
 aagttttaag caagggacaa ctatattgac aagctttata ttactatact atgtatTTTT 240  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556133H1

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 tcatcggcgc cgcgggaac gacgtcgtcg atgtcgttga cggacacggt gagggggtcg 180  
 caccggttca agatcacggg gtattcgtcg tcgaagggga ttgggattgg gaagtacata 240  
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<223> Clone ID: 700556134H1

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 ctttgcagnt tagtgggctc atactctcgc ttttgactct gggcctgagt ctactgtgg 180  
 tggaccattc gcagaccacg ctgaattggg ccgttgggct cagcatcgct gcggtgctgt 240  
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<210> 2238  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556135H1  
  
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 acccttcctc agcatcagct ctcaccatca aagctgcttc ctatgctgac gagctcgtca 180  
 aaaccgcgaa aacagtggcc tcaccggggc gtggtatatt ggcatggat gagtcaaag 240  
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<210> 2239  
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 <213> Glycine max  
  
 <223> Clone ID: 700556136H1  
  
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 gtgacacaac agtagagaga cgagtttatt gctctgccgc tgctcaatca ccaccaccag 180  
 catggccagg aacagctatt cccgagcctt ctgatttcaa gacatgggat gggcaaaaac 240  
 ctatttctgt cttaggatct acgggttcaa ttggaactca gacactgagt 290

<210> 2240  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556137H1  
  
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 aagcatcgat ttcgaaggcg acaacatgaa gcatgaaaat agagccagcc actttttatc 180

gttaataatg ttacaagcaa caagataaaa tacgctcttg gatgcatgcc cctatctccc 240  
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<210> 2241  
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 <212> nucleic acid  
 <213> Glycine max  
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 cgtgatggca ttcagatcaa tggtccggag ggaatccgtg cttacaacag gaacaacggg 180  
 agctgcaata ttctctctct ttggtatctc ctttgactca gaaccattat ccattgctat 240  
 acttgtgttt gtattttgca gcgacacgta tcttcatcaa taatc 285

<210> 2242  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556139H1  
 <400> 2242

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 ccaccaactc atacgaaacc cgaactcgac gccactgtca aaatggagga ggccgaagac 180  
 gaaccagaat cagttcgaga cgatcccata gacgaagata tccctgaaga agacacagtt 240  
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<210> 2243  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556140H1  
 <400> 2243

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 gagagacgat gttgaactcg ttgccgttaa cgaccctttc atcaccaccg attacatgac 180  
 anacatgttt aaatacgaca gtgttcatgg aacttgggaag catcacgatg tcaccgttaa 240  
 ggacgagaag acccttctct tcgnggacaa gccagtcact attttt 286

<210> 2244  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556141H1

<400> 2244

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 tgaggtgaca gaattctctg ggctaagatc cacttcatgt gtgacatatg ctaacgatgc 180  
 tagagaatct tccttttttg atcttgtagc ttcccaactc actcccaaga ccaatggatc 240  
 atcaactcct gtgaggggag agacagtggc caagttgaag gtggcaat 288

<210> 2245  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556142H1

<400> 2245

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 gcacagcagt tatttgagag ggatgcgcag ataataacgc cggaggctct ccgagaatgt 180  
 caaggcagcg attgcaagca gcgacgtgga gcacaaaacc gatgccaaan aganagcgg 240  
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<210> 2246  
 <211> 284

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556143H1  
 <400> 2246

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 agacttgatg aaattgcagt tgtcaggcat tgatgaaact cagcaaccat tgtcatctct 180  
 tatctacca actagcaaat tcaacatcct gaagcctttg ctgtattttg ttcaaggttc 240  
 agccctttca tcaaagatca cggttcatcc agatgggtcaa atga 284

<210> 2247  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556144H1  
 <400> 2247

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 atactggaca aaagattaaa aagaaggttc aatttggttg tgcactggac ttgaaacctt 180  
 ttgtcagtgg ctcaaagat ggagatgtga agtactctct atatggtgtt ctgggttcattg 240  
 ctgggtccag cactcatctg gacactatta ctgctatgtt c 281

<210> 2248  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556145H1  
 <400> 2248

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 aatttccttc tcaaaaatct acactgccaa gagcctccaa aagcaatggt atagtgtgtt 120  
 gggcaaccat gactacaggg gtgatgttga agctcaattg aatccaatcc ttcagaaaat 180  
 tgatcctaga tggatctgcc aaagatcatt tattgttgat actgaaattg ctgagttctt 240

cttcattgat tcaacacctt ttgtggacaa gtattttctt aa 282

<210> 2249  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556146H1

<400> 2249

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gcgcttctgc ctctctacct caccaacgcc ctcttcttcg ggggtgttctt ctccgtcgcg 180  
tacttctctc tccaccgtg gcgcgagaag atccgcaccg ccactccctt ccacgccgtc 240  
agccccgccg agaccgccgc catagtctcc ctcgctgcct ccgc 284

<210> 2250  
<211> 287  
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<213> Glycine max

<223> Clone ID: 700556148H1

<400> 2250

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tctttattcc caccgtctt ctctacgctt tctcaccaaa tttaaaacc cctccggagc 180  
gaattctcgg cggctggttc cgaaagccac ggcggctccc ggggccaaga agacagaaaa 240  
gccgcacgag agagtccagc gagtccacag cgtggaggag ttcgagt 287

<210> 2251  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556149H1

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 gtttattgct ctgccgtgc tcaatcacca ccaccagcat ggccaggaac agctattccc 180  
 gagccttctg atttcaagac atgggatggg caaaaaccta tttctgtctt aggatctacg 240  
 ggttcaattg gaactcagac actgagtata gtggctgagt tcccagaaag at 292

<210> 2252  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556150H1  
 <400> 2252

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 acaaggccct caacatcatc ctgaacccaa acggaaccct cacacgctta agcattcctc 180  
 cacaaagccc tccctcaccg gatcccactc tccccacagc ggttctctcc aaatatctca 240  
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<210> 2253  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556151H1  
 <400> 2253

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 caaggtttac tttgatgttg agattaatgg aaaagaagca ggtcgtattg tgatgggtct 180  
 ttttgaaag gctgttccaa aaactgcaga aaactttcga gctctttgca ctggggaaaa 240  
 gggaactggt aaaagtggca agcctctcca ttacaaaggt agctcatt 288

<210> 2254  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556152H1

<400> 2254

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 tgatgacgac cctatatTTtg gccatgtaag tcttgagaat tctgatgagc tgtggtcttc 180  
 caaagacgtg agtaacagca cagtacccat actcttggag acaccaaacc caacaagtgc 240  
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<210> 2255

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556153H1

<400> 2255

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 actagacatg ttttgcata taccaacttt gtatccgtcg ttatatggct tgacaatttc 180  
 aattttgttt gtnatttgca tcaagattca gtttagttaa atgatgtgtt ggttttctta 240  
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<210> 2256

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556154H1

<400> 2256

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 actcgtcctt ggaagaccac tgctttctgt cgtaggcttg ctcgcaattt tatggcaatg 180  
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<210> 2257  
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 <213> Glycine max

<223> Clone ID: 700556155H1

<400> 2257

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 acccagacaa gagcaatgat ctagctcgtc ctgttcttgg aggttctagt gcctatccat 180  
 atcctcgagc gggaagaact ggtagaaaac caacaacaaa agactctaag agtgagtcac 240  
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<210> 2258  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556156H1

<400> 2258

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 ctgccaggat ttgaattctt tcccgacacc aaggtcgca ttcttgggtg caaagnntcg 180  
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<210> 2259  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556157H1

<400> 2259

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ctggctatgg tgagcggttct tcggaggttaa aatgcgcaag ttttaggctt gctgtggaag 180  
cacacaacat ccgagccttt aaaaccattc ctgaagagtg cgttgaacca acaaaggact 240  
acattaatgg cgaacaattt agatcagact ctaaaacagt taac 284

<210> 2260  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556158H1  
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gtgcaaagtt ggaggctttg ttgctgaaat gtggctctc caatgctgnn nnnnnnnnnn 180  
nnnnnnnnnn nnnncatttg tcatgttttt gcaaaaccag aaagacactt gttcagagtc 240  
agagagggcc tattcgctgt gaggcttctt ctgcttctga tggt 284

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<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556159H1  
<400> 2261

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tctttgtatt tggagattca cttgttgata atggaaacaa caattacttg gctaccacgg 180  
cacgtgccga tgctccccct tatgggattg attaccctcc aagtcataga ccaactggtc 240  
gtttctccaa tggctacaac attcctgatc ttatcagtca a 281

<210> 2262  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556160H1

<400> 2262  
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 accatgggaa gaatcgtgga tttgagcgaa caagtgagag ggaccttgcn ctggtgaaca 180  
 aggactgtga cttcttgaaa gatgagcatt cggtgccacc acggtggagg caagacttga 240  
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<210> 2263  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556161H1

<400> 2263  
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 cttgtntctgt tctgtagtgt gtttncagtt ttnaagtttt gagcttcact aacttcagca 180  
 tactcctttg agtaaatgag taacatgaag ttgganttgc atgttggaat ttngncacct 240  
 gaatggtgat tctctctggg acttncngtg ttggaga 277

<210> 2264  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556162H1

<400> 2264  
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 tccttgtgtc tcgaaaagta tctcataact tttcaggctg aagaagttga tatgacagct 180  
 ctcaatcata tgactgatga agatctcaag gctatgggta taccaatggg accaagaaag 240  
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 aacttgcttt tcatccacca cgcttgcaac tcaacaaaaa ttcacacca ataaggttcc 180  
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 ggtggtgtca agaatgcttc gcacctgctt aaatatgatt ccatgctggg aactttttaa 180  
 gcagatgtga aaatactgga caatgaaacc atcactgttg atggtaagcc catcaagggt 240  
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 <223> Clone ID: 700556168H1  
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<210> 2276  
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 <212> nucleic acid  
 <213> Glycine max  
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 ttgccttgct ctaagctcct ccttgttcga ggtgtcaatg gccggttctg ctttctgctc 180  
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 acgtggtagg ggcaccagta tagtatgtat gtaaataatt tgcacgatgt aatgttatga 180  
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 tgggtggagg aggcggcgaa cccgatacga atggtgtctg gcgtggaggc ggaggtgggtt 180  
 cgggtgatcg gggagtgccg gcgtgcgttg aagtttgcta ggttcgtgag caggttcggg 240



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277

<210> 2279  
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<213> Glycine max  
  
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ggccaccaca tccgcgtcca catcatcaag ttccccaacg cccacgtagg gctaccggaa 240  
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gcccgcggcg gtggcgaact tctgaagac gaagacgacc atcgaccgcg tgaagatcta 180  
cgacgtgaac ccggacatcc tgccggcctt cgccggcagc ggcattctccg tgacggtgac 240  
cgcccccaac ggcgacatcg ccgccttaac caaaatcgac tcgg 284

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<223> Clone ID: 700556180H1  
  
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 atcgaccact tcgaccggtt accggactcg ctctctcttt tggtttncaa caagatcggc 240  
 gacgtcaaag cnc 253

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 <213> Glycine max  
 <223> Clone ID: 700556182H1  
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 tgtatttcat tcacaagtag acgatacttg aagataattt ctcccatggc ttcttctttt 180  
 gggctgcatg gccacttttg tacaaaaaag ggcattggcag acagccttgc tttaccttac 240  
 attgttatat ctttgaataa tgtattttgt tttgtggatc ttt 283

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 <212> nucleic acid  
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 <223> Clone ID: 700556183H1  
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 ccattttctc ttacacgcta ccttcttcca ccaaacttct ccttctcccc tctcactctc 180  
 actctttcca tggctgcttc accccaatcc tccgctccaa ctgtgtcgcc tggatgatgt 240  
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<210> 2284  
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 <212> nucleic acid  
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<223> Clone ID: 700556184H1

<400> 2284

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taatttcagc cgagaaggct caccatgagc agctatcagt tggtgaaatc accaacagtg 180  
cattcgagcc atcatctatg atggccaagt gtgatccccg ccatggcaaa tacatggcgt 240  
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<210> 2285

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556185H1

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agtctgaaat caagctcttt atttggagaa tcgctaagag tggcctccaa atcaacaata 180  
aaggtttcaa agacaaagaa tacttcactc gtgaccagat gtgaaattgg tgacagtctc 240  
gaagaattcc tcacaaaagc aacaccagat aaggggttga tc 282

<210> 2286

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556186H1

<400> 2286

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ttcttttgat tctcaaattc ttcttcgggt tttttccctt tctttttggg ttcatagagt 180  
atgggttcgg tggactgtta tccttctcgt acggacgatg ctgccgtggg gtctttggat 240  
tcgctgcctt tagggttccg attccgaccc accgacgagg aa 282

<210> 2287  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556187H1  
  
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 cgaatagcta atgtcagatt ttccataccg ccggcaagag aaattattaa atggttcagg 180  
 attaggatta cgtcaatddd catgtgacac aagtttttct tagtttcgga caaagaatga 240  
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<210> 2288  
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 <212> nucleic acid  
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 caccacctct nanncgccct cctccctct ctcccacccc atctacctna tctggggctc 180  
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 ctccccanc ncctcccaat tccactacct caagcc 276

<210> 2289  
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caacttgctc actgtcattt ctggatctgc tgagagagct ccaactctct aaatcattca 180  
tcttcatggt tttctccaat cttacttaat gtacaatata tatcactgag atattaaggc 240  
atttggtttt gttccttgg 259

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caacttgctc actgtcattt ctggatctgc tgagagagct ccaactctct aaatcattca 180  
tcttcatggt tttctccaat cttacttaat gtacaatata tatcactgag atattaaggc 240  
atttggtttt gttccttgg 259

<210> 2291  
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<213> Glycine max  
  
<223> Clone ID: 700556194H1  
  
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acgaaacatt tggaggaaat ggaaggagca aagagtcata tccatttttt tgaaatggat 180  
cttcttgaca tcgactccat tgccgctgcc ataaagggtt gttccggcgt aatccacctt 240  
gcatgtccta acatcatggt caagtcgaag atcccgaga 279

<210> 2292  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556195H1

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 gcggacctan tatnctact actactctac tctatttaca cggaagaaca aaaaactatn 180  
 nnnnnnnnnn nnnnnnnncc ccaaagcggc tcggttaggg tttagtttg taccatttcg 240  
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<223> Clone ID: 700556196H1

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 cccagtccaa ccnaacatta tgctccaaaa agatgctagt atttcatcct ctgggggtgtt 180  
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<223> Clone ID: 700556201H1

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<223> Clone ID: 700556202H1



<210> 2298  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556206H1  
  
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 gaatccgcca gcgtccatgg ggaaagtggg ctgctgagat tcgcgaccca agaaaggggg 180  
 ttcgtgtttg gcttggaaact ttcagcactg ctgaagaagc tgcaagagct tacgatgctg 240  
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<210> 2299  
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 <212> nucleic acid  
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 <223> Clone ID: 700556208H1  
  
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<210> 2300  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556209H1  
  
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 atcgttccca gccttggtgcc accatgaatc ccgaatacga ttatttggtc aagcttttgc 180  
 tgattggaga ttctggtgta ggcaagtcac gtcttctcct gaggtttgct gatgattcat 240  
 accttgacag ctatatcagt accattggag tg 272



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 tgcgtgcaa tcacacggcc ttctcancac tgcncttgtn ctctcacca ccctcctccn 180  
 ccacccccac gtctannnt tcaacaccct catcagagtn ttctcccaat cccttaccce 240  
 gcacaccnnt ctntnnnnct acacgcacat gg 272

<210> 2302  
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 <212> nucleic acid  
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 <223> Clone ID: 700556211H1  
  
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 acctgaaaca ctgcctcaag aggtccttgg gaaaatggga gcacctccaa agagtgatgt 180  
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<210> 2303  
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agaacctgaa tgggaggggtt ctcttggtt gaccagaaa tctggaataa tctcaacatt 60  
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catcaactct gctttatacc ctggggggcn tctgtgcct actcagtcac ccaaacttct 180  
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<210> 2307  
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<400> 2307

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<213> Glycine max  
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<400> 2308

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gtactaactc ccatttctta tttattattg antnaaccga tcnacttgct ttgtnatcga 180  
acatttcttg ttgattncaa aaatttnccg gaaaanattt gaatctantn ttatatgcga 240  
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 tggnccttag catcacggta attaanaaca gtnacacgca gaaacttga cagcttgtaa 180  
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 tggtagccca atggttagatg ctgtagttaa taactctccg ctggacaggg agatggttca 180  
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 gtttgnggaa tttnggtc 258

<210> 2311  
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 <212> nucleic acid  
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 ttctaagatn tctctatatc ccagcaagga gaagtattta tccaaaccta taaatgagct 180  
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 aatacctgta gctagccaga aaacaga 267

<210> 2313  
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<400> 2313  
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 ggaggtcgca acaaacacgg ccgcggccat gtcaaattca tnccgatgct ccaactgcgg 180  
 aaaatgctgc cccaaggaca aggccatcaa gaggtttttg gtttaggaaca ttgttgaaca 240  
 ggctgcagtc agagatgtgc aggaagctt 269

<210> 2314  
 <211> 272  
 <212> nucleic acid  
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 tcaccaagcg atgaganttc ccgttccctc atcccanag gccaacccan ancccancaa 180  
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<210> 2318  
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<210> 2319  
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 atgtttatca tagatctgtc atcccaatcc cttatccaaa ccctgatgga gattttactt 180  
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 anggtgggtt gtntgagaga actggctctg gtgttcccaa attcaagtcc acaccaccac 180  
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269

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556237H1

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cactcatnca gacaccaaca catcctcatg tgtctaattc taccttgctt gtatttgtag 120

cgctattact ccttgctgtg taaatggcac atgttgatgt tatnccgatta 170

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<223> Clone ID: 700556238H1

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aattacntnc ggatt 75

<210> 2323

<211> 267

<212> nucleic acid

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<223> Clone ID: 700556239H1

<400> 2323

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gcagcattca ctggtnaaac tgctntgaag cagctnaatg agttcgnccg caagaccggt 120

ggcgccggca aaggctgcac taacatgcgn cgcaccgtca anagngctcc tcagngcatt 180

tggtatggcc ctnaccgtcc caagtacttg ggtccattct cggngcagat nccatcatatc 240

ctgaccggag aattccctgg ngatacg 267



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<223> Clone ID: 700556240H1

<400> 2324

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<223> Clone ID: 700556241H1

<400> 2325

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 gcattagctc agtctggagt atcaaaagag gatgtgaatt acataaatgc acatgccaca 120  
 tccacaccag ctggagatct taaggagtac caagctctaa tgcattgttt tgggtcaaac 180  
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 gctgtggaag ctgtggccac aatacag 267

<210> 2326  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556242H1

<400> 2326

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 gcaaaaggat gtgttttagca agcttctaata ggataaacia agtgactcta ttttcagggt 180  
 gaatcattac gctgcttgct ctgaaatgac tctgaatgat cagaacttga ttgggtttgg 240  
 agaacacaca gaccacaaaa tcatctc 267

<210> 2327  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556243H1

<400> 2327

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 agaggagaga gagggatttc gaac 84

<210> 2328  
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 <212> nucleic acid  
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<223> Clone ID: 700556244H1

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 gcaaaaggat gtgttttagca agcttctaataat ggataaaciaa agtgactcta ttttcagggt 180  
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 <212> nucleic acid  
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<223> Clone ID: 700556245H1

<400> 2329

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 caccctgatc aagctctgcg agccanattc ccgatgctgt cctcgacggc ttgccttgaa 180  
 caggacccag acagcaaggt tgcttgcgaa acatgcacca agaccaactt ggtcatgggc 240  
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<210> 2330  
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<223> Clone ID: 700556248H1

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<210> 2331  
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<223> Clone ID: 700556249H1

<400> 2331

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 gagtctgaaa tcaagctctt tatttggaga atcgctaaga gtggcctcca aatcaacaat 180  
 aaaggtttca aagacaaaga atacttcact cgtgaccaga tgtgaaattg gtgacagtct 240  
 cgaagaattc ctcacaaaag caacaccag 269

<210> 2332  
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 <212> nucleic acid  
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<223> Clone ID: 700556251H1

<400> 2332

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 catcatgatt gatctcgga cggtaacaa caacaagatc aactgggctc tcaaggacaa 180  
 gcaggagtgc atcgacattg ttgagaccgt ctatcggtga gccaggaagg gacgggggtct 240  
 cgtcatcgct cccaaagatt actcca 266

<210> 2333  
 <211> 264  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556252H1  
 <400> 2333

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 gccttggcat tccagttgac agagaaatta tctatccttg cagagagtaa tgaaagagca 180  
 acagaggcaa ggataggtgg tggtaggttg gatctgcctc taaggcgag agatggccag 240  
 gactatgccg ctgccgctgc tggc 264

<210> 2334  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556254H1  
 <400> 2334

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 aagcgctagg gatcaagaaa gctctggttt ttacgccg aaaagccccc aaaggagtga 180  
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<210> 2335  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556255H1  
 <400> 2335

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 tcttcttact gctgcttcga atcg 84

<210> 2336  
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 <212> nucleic acid  
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<223> Clone ID: 700556256H1

<400> 2336

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 aggaagtgag atcagtgagc aagtagtagg ggaggatttg ggagcaaaga agaaagtttt 180  
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 ttttgctgtt aaggctgggg ttagaga 267

<210> 2337  
 <211> 265  
 <212> nucleic acid  
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<223> Clone ID: 700556258H1

<400> 2337

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 tatcctcaag gtcagctga agaaatgggc ttcaactacc ttcaagaggt cactgggtgca 180  
 ggtgctagga aaaatgcagg gaaatttggt gttctacacc tccgatttga taaggatatg 240  
 gcagcccatt cggcctgcga ttttg 265

<210> 2338  
 <211> 265  
 <212> nucleic acid  
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<223> Clone ID: 700556259H1

<400> 2338

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 ggagataatc aacaacgtaa tgtgtctttt gacagaccct gatggaactc ctttgggtgc 180



gggcaaaagg gtttcctagt ctgaaggtgt taggccttga tgatttagat ggactgaaat 60  
 caatgactgt ggaggaggga gcaatgcctg gtcttaaaaa gctcatcatc cagcgctgtg 120  
 attcattgaa gcaggtacca ttaggcattg aacacctaac aaaactanaa tcaatagagt 180  
 tttttgatat gcctgaagaa ttgattacag cactgcgtcc aaatggaggt gaggattatt 240  
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<210> 2342  
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 <213> Glycine max  
 <223> Clone ID: 700556266H1  
 <400> 2342

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 caagttgttc gcctgaaggg agtgccttat tggatgaaca gaatcgtcga gagagtgatg 120  
 tttcaggag gagtgtgctt gaatgggaag aaaatgcagg ttagagact c 171

<210> 2343  
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 <223> Clone ID: 700556267H1  
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 aacctcgccg cgatcannnn nnnnnnnnnn nnnnnnnnnn nngcacaat tccaacagca 180  
 gtggtagcna tgtatttnat ttgcttgcaa ggaggagat ctcgcctcga tcaagatatg 240  
 tgg 243

<210> 2344  
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 gctggtgttg ttgtttcttc tgctactcct cgcaacgtgg aacttacctc ttccacaaca 180  
 cacttgga cgcacatggg tctcttcctc gaagaggctg agaagggtgaa ggctgagatg 240  
 gggtcacctc gtgacatcct cggc 264

<210> 2345  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556271H1

<400> 2345  
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 ggaactgttg ggcgatttga ctcatcaa at ggttttagag taccacatat tggctggaat 180  
 gctttacaaa tctactgagga ctcggaatt ttggatgatg ttggaaatca ccatgtctat 240  
 tttgtgcact cttatcgtgc c 261

<210> 2346  
 <211> 265  
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 <213> Glycine max  
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<400> 2346  
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 cgcgcggcac tcagtttctc tttcgtttnt ctttntctnt tctntcttcc tttcgttcac 180  
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<210> 2347  
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 atcatggcgc aatatatgcc cttggacagc caagcagaag ttccaaatca tgtcaatgat 180  
 caaagagcat gaaggcaaaa atgggccaat cccttggaat ttcacggcag gcagcatggg 240  
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<210> 2348  
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 <223> Clone ID: 700556274H1  
  
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 agaatgcaag cactattggg tattttcaact cagctcaagc aatagcagat tatgcatcag 180  
 tctcataca tattaagaag acattacatg cccaaaagtc cccggtgatt gtgattggag 240  
 gatcatatgg aggaatgc 258

<210> 2349  
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 cttattacag agtttgtgcc aaatggtacc cttagagaac atttggtatg tatgctgga 180



gcgcaatgta gattagagaa atttaattag tgtaaatttg tttgtgataa gtaatgtttt 60  
 ctaggggtgta ctgtagatat tcattccctg cgccgggtgt tctcagttct tgacaactgg 120  
 gaagggctcg ggaaatgttt taatttgtat ccgagcatcc aacgctgaca agaggtgggt 180  
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<210> 2353  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556280H1  
 <400> 2353

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 gatgatgtta gccgccgacg tccacctcgg caccaaaaac tgcgacttcc aaatggaacg 180  
 ttacatcttc aagcgccgca acgacgggat ttacattatt aaccttgga agacatggga 240  
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<210> 2354  
 <211> 267  
 <212> nucleic acid  
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 <223> Clone ID: 700556281H1  
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 gccaacagcg tcgagatcaa caatctcgct cgctttgctg tagaggaaca aaacaaaaga 120  
 gagaattcag ttctggagtt tgtgagggtg attagtgcaa agcagcaagt ggttgctgga 180  
 gtgaattact acataacatt ggaagcaaaa gatggtttga ttaaaaatga gtatgaagcg 240  
 aaggtttggg tgaggggaatg gttgaac 267

<210> 2355  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556282H1

<400> 2355

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ggggccactc aggcagatct ttgtggagtt ccttgagagg tcctgcactg ctgaattctc 180  
tggcttcott ctctacaaag agcttggaag gaggtcaag aaaaccaacc ccgtgggtggc 240  
agagattttc tctctgatgt ctaggg 266

<210> 2356  
<211> 263  
<212> nucleic acid  
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<223> Clone ID: 700556283H1

<400> 2356

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acaactgatg caactagatg gtggttattg ttgtgcatcc tgcggtaaag ttactgggat 180  
acttggatgt tggaagaagc agctaaatat agcaaaagat gcccggcgtg tagatgtact 240  
atgctacaga atatatttga gct 263

<210> 2357  
<211> 262  
<212> nucleic acid  
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<223> Clone ID: 700556284H1

<400> 2357

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acttggcacc cctccaaagc tagctgaatt gccgccaggt gaaaatgttt aagcagtctg 180  
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attttgcact ttttttgttg at

262

<210> 2358  
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<223> Clone ID: 700556285H1  
  
<400> 2358

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ctgaaaatgt tgctgttcaa gtccttgact ctgtgantat caccttgggt gctgaagatg 180  
aactaaaaca tgcagttgca tttgttcggc cagttagtgt ggcctttcag gtgggtgaatg 240  
ggttccatth ctacgagaat gg 262

<210> 2359  
<211> 264  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556286H1  
  
<400> 2359

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accccatcaa cctcagtggg gccacaaggc cagctccatc tgcctctagc cctgcctcct 180  
tcaagactgt ggctcttttc tccaaaaaga aggctgcacc tccaaaaaaa gctgcagctg 240  
ctgctcctgc caatgatgag cttg 264

<210> 2360  
<211> 265  
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<213> Glycine max  
  
<223> Clone ID: 700556287H1  
  
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2361 2362 2363

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tacgcgcgcg tttegtcttc cggtgaccct ctccaccctc agggcgccac caccacgtc 240  
cacaaagacg ccggcagcaa cccca 265

<210> 2361  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556288H1  
  
<400> 2361

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tcaacaccgt cttcgatgcc aagaggttga ttggtcgtag attcagtgac tcctctgttc 180  
agagtgatat caaattgtgg ccttttaagg tcattgctgg tgctgctgac aagccantga 240  
tcgtggttaa ctacaa 256

<210> 2362  
<211> 256  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556289H1  
  
<400> 2362

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ccatcaacag ccacagccac agccacaggt gtatgaacag caatatcccc agctgcagca 180  
gtggctgtgg ctggcaggca ttgtcacatc gtgtgagtta cgtgtgggtt gtggaagagg 240  
ntggaacctnt gacngg 256

<210> 2363  
<211> 169  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556292H1

<400> 2363

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gcaaacaagc tcgccagcaa gcaccagagg gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnatg 120  
cccaagtgtg acatatgcc a ngaaatgggtt gggtattncc ttctgttta 169

<210> 2364

<211> 268

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556293H1

<400> 2364

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aacagatgaa gaactcgtca tccactacct ttgtcgcaaa tgcgcttcgc aacatatcgc 180  
ggttcccata atcgccgaaa ttgatctgta caagtacgac ccttgggacc ttccaggaat 240  
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<210> 2365

<211> 170

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556294H1

<400> 2365

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cgccggccac tcagtttctc ttctgttttt ctgtgtctta tctntctttc 170

<210> 2366

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556295H1

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tgccctacaa aaggacacct cctagctggc tcaagatctc ttcgcaagat gtcgaagaaa 180  
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<210> 2367  
<211> 272  
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<223> Clone ID: 700556296H1

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cagctgttcc ataaatgatg cacatcattt agccattctt tatgggattg gattctcata 180  
tgcatgtagt gaggtttccc tcgttcagag catgaaatga atctactgaa aaaatgtcat 240  
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<212> nucleic acid  
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<223> Clone ID: 700556303H1

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<212> nucleic acid  
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<223> Clone ID: 700556304H1



<400> 2369

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ctcgagacag cgggtggcgcg gacgggcgga accggttacc agtctccgtc cgtcgaatgtt 180  
cccacgcata aggtcatagt ccacgacaga caacgaggaa tcgttcacga attcgtcgtg 240  
cctgaggacc agtatatatt acatactgct gaggccagaa tattaccctt c 291

<210> 2370

<211> 187

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556305H1

<400> 2370

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aatcctcatt acagtctagc aaggccaagt ccttggcagc aagccttcag aagggattac 180  
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<210> 2371

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556306H1

<400> 2371

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ggaagaaacc atctctttgt tccagggccg gttaacattc cggaccagat catccgggcc 180  
atgaacagaa acaatgagga ctaccgttct ccagcaattc cagctatgac aaaaactttg 240  
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<210> 2372

<211> 286

<212> nucleic acid  
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 tagacatagc tangctcttn gccantcatg gtgttgatgt caccataatc accaccacag 180  
 ccaactgccgc nattttccaa gctctatcga tcgcgaccgt gaccgcggcc agntattaga 240  
 acccacgttg tcaagttccc atgtgaacaa tgggttncca gaagga 286

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 acctaccctt cagtcctaac tttagaacia tattgcaccc ttgaatctgc ttccacaggc 180  
 aacagtttctn ctaacaaaaa ttctccacct gctctcagtt tctcatctaa caatagtcca 240  
 ttgtcaaagc tagagtcaaa ctcatatggt aaggccacag catt 284

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 <213> Glycine max  
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 agagctccaa accttcagat ccacctcatt cgtctccaga tcttcttcc ttgataacgt 180  
 tttcgggttc gagaaggcac ttgtttgttt gtcgtacgaa atggagacta aaccgagttc 240

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281

<210> 2375  
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 <212> nucleic acid  
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 <223> Clone ID: 700556311H1  
 <400> 2375

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 tcaataatcc aataattatt tattcttaga aagctaataa ttgtaactgg tgggttgag 180  
 ctttcttaag gcatagatgg tttgcatgaa ttgcatgac gatctgtata tctatttact 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556312H1  
 <400> 2376

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 actggtcacc tgatttacia gcttgaggc attgacaagc gtgttattga gaggtttgag 180  
 aaggaagctg ctgagatgaa caagaggtct ttcaagtatg cctgggtgct ggacaaactt 240  
 aaggctgagc gtgaaagagg atcaccatga tatgc 275

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 <213> Glycine max  
 <223> Clone ID: 700556313H1  
 <400> 2377

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 tccaacacat ttaacagatt tcacgccacc aacggtgtct tcgtaacgga tatagcataa 180  
 ccttttgatc attcggtagt aaaatccaat ctccaacctc ggatccatct tttacattct 240  
 tcagatcata ggatctaata ttgtagcagt tttgaaagaa ga 282

<210> 2378  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556314H1  
 <400> 2378

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 <223> Clone ID: 700556315H1  
 <400> 2379

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 cggcgccaag ttctgggagg tggtttgcgc ggagcacggg atcgacccca ctggaaggta 180  
 cgggtggggac tcagagcttc agctcgagag gatcaatgtc tactacaacg aagccagctg 240  
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<210> 2380  
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 ccaaggcaag ggtgccaatg ccaatgctct tagggatggt gtttccatgg gaactgggaa 180  
 gtacaccatg ggcaatgatt tgtggtatgg accagacaga gtgaaatact gggacccttt 240  
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<210> 2381  
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<223> Clone ID: 700556319H1

<400> 2381

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 tctccttatt ttgtttcttc tgccactcat tgcttgctga gagagccttt tgttctgagt 180  
 ttttggtttc ttggtgagtg cttctgacaa tatattggaa cttgggtttg gggatgggtgc 240  
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<210> 2382  
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<223> Clone ID: 700556320H1

<400> 2382

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 aaaattaatt ctcaaggatc cacaagatcc ttccactcca aatgcagttt catacaaaac 180  
 agcagcgaga gagaaactga taaggcaggg atacaacatt gttgggatca ttggagacca 240  
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<400> 2383

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<210> 2384  
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<223> Clone ID: 700556322H1

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nctaaaccac ccacaacaca acaaccgnat ncntttt 97

<210> 2385  
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<223> Clone ID: 700556323H1

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tcagcctttg cctcacaatc tatgggattt catcttttaa cgaaggagac ccatccactg 180

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<210> 2386  
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<223> Clone ID: 700556324H1

<400> 2386

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 tgctatcgga atcgatttgg gaacgacgta ctcttgcgtc gnccgtgtgg caacacgata 180  
 gtgttgaaat catagccaac gatcagggtg atagaactac cccatcctac gtggctttca 240  
 ctgatacaga acggttgatc ggcgatgcgc gaagaaccag gtcg 284

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 <223> Clone ID: 700556325H1  
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 acgcctacgt cgacganctc ctcaacatcc tcgacgcnet ccgcgtcccc cgctgngtct 180  
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 aaccaatcaa cgccctccac tcttctctca attcctccct catctctcaa gaccaagncc 180  
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<223> Clone ID: 700556328H1

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caacctcagc ctcacactca cacatacaca catctgaacg cgtatcgtcc ctcccatggc 180  
ttcaaagcgc atcctcaagg agctcaagga cttgcagaaa gaccaccaa cttcttgtag 240  
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<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556329H1

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gtactaactc ccatttctta tttattattg aattaaccga tcaacttgct ttgttatcga 180  
acatttcttt ttgatttcaa aaattttccg gaaaaaattt gaatctattt ttatatgcga 240  
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<210> 2391

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556330H1

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ccttaaagag acttgagggt acagaattct ctgggcttag atccacttca tgtgtcacat 180  
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 tgcctatctg catggaagaa atacagtaca cagggatatt aaaggggcca acatactagt 180  
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 <213> Glycine max  
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 tataattaat taatgaacat ggtagtagat cttttgatac atggtgggggt tgggtgggggt 180  
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<210> 2394  
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 ctctctgctt gcaaagaaac ctttgtggg tggcactgct ctttccctca acaacctcaa 180

tttttgtcgt actaggaggt cttacacctg tagagccatc tacaatcccc aggttgtcgt 240  
caaagaagaa ggccaacccg aaaccccgat tatagagttt tct 283

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<223> Clone ID: 700556336H1

<400> 2395

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<223> Clone ID: 700556339H1

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<400> 2397

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Parameter	Value	Unit
$\rho_{\text{air}}$	1.225	kg/m <sup>3</sup>
$\rho_{\text{water}}$	1000	kg/m <sup>3</sup>
$\mu_{\text{air}}$	1.81e-04	Pa·s
$\mu_{\text{water}}$	0.001	Pa·s
$\sigma_{\text{air}}$	0.072	N/m
$\sigma_{\text{water}}$	0.072	N/m
$\gamma_{\text{air}}$	1.4	-
$\gamma_{\text{water}}$	1.0	-
$\alpha_{\text{air}}$	0.00015	1/m
$\alpha_{\text{water}}$	0.00015	1/m
$\beta_{\text{air}}$	0.00015	1/m
$\beta_{\text{water}}$	0.00015	1/m
$\delta_{\text{air}}$	0.00015	1/m
$\delta_{\text{water}}$	0.00015	1/m
$\epsilon_{\text{air}}$	1.0	-
$\epsilon_{\text{water}}$	80.1	-
$\nu_{\text{air}}$	1.5e-05	m <sup>2</sup> /s
$\nu_{\text{water}}$	1e-06	m <sup>2</sup> /s
$\kappa_{\text{air}}$	0.026	W/m·K
$\kappa_{\text{water}}$	0.6	W/m·K
$\lambda_{\text{air}}$	0.026	W/m·K
$\lambda_{\text{water}}$	0.6	W/m·K
$\eta_{\text{air}}$	0.026	W/m·K
$\eta_{\text{water}}$	0.6	W/m·K
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$\theta_{\text{water}}$	0.6	W/m·K
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<211> 281

<212> nucleic acid

<213> Glycine max

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cntccccctcc tttcttgctc caaagcgaca tggttttcgga cgaacaagag ttgacatcgc 180

tgctgggggaa agaacaccac aaccctctaa gcacctgtct ccaaaccaac cctgccttgg 240

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<213> Glycine max

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868

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<210> 2402  
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<210> 2403  
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caaggcctca ttgttgggag acaccattgc ttatgatcaa tgagctncca ggctaaagtc 60  
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<210> 2407  
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<213> Glycine max  
  
<223> Clone ID: 700556351H1  
  
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cgaggcttcc tacgctccag tcccacctcc ccagcccaaa cctcttgtcg attggtccac 180  
cggcctctgt gactgcttct ccgaatgtgg aaactgttgc atgacgtgtt ggtgtccatg 240  
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<210> 2408  
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<213> Glycine max  
  
<223> Clone ID: 700556352H1  
  
<400> 2408

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caggttcatg gtccaacaac tataaagtgc cctgcaacct ctcaaagcag cacattgggtt 180  
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tggattctnt gcctganatt gaattatcag tcagaggaat attcc 285

<210> 2409  
<211> 285  
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<213> Glycine max  
  
<223> Clone ID: 700556353H1  
  
<400> 2409

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 ggacttgtgg ataagatcaa ggacaagatc catggtgatg gccatgacaa gggtnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntggacatg accatcatgg tcatagcagc 240  
 agcagtgcaca gtgattagat cttatatgtt agcagtgtac ggtac 285

<210> 2410  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556354H1

<400> 2410

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 cgagaagaag gttctcgaaa cagttgatga atcaatcgta tgcccccnnn cacagaagaa 180  
 cgaggaaccc ttaatcgta aattcagaga gggacaaacc aaccttctg aaaaatactc 240  
 tgcacttgta gatttgtttg gtcacacaan tgttactca ggttgc 286

<210> 2411  
 <211> 238  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556355H1

<400> 2411

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 cacatagagc ccaaattccag gacttgccat gccctcgtcg ccgctttggc tgcagaggtc 180  
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<210> 2412  
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 <213> Glycine max

<223> Clone ID: 700556356H1

<400> 2412

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 tctccgaatg aaaactggct atggtgagcg ttcttcggag gtaaaatgcg caagtttttag 180  
 gcttgctgtg gaagcacaca acatccgagc ctttaaaacc atcctgcnag agtgcgttga 240  
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<210> 2413

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556357H1

<400> 2413

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 tcttcggcct agtgtttctg atggagttga tgcaattcaa cctcaagagt cttatctaca 180  
 actcaataaa gaccaaaggg ttgttggtga gtctcttctg atgatgatga gcattctgta 240  
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<210> 2414

<211> 178

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556359H1

<400> 2414

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<210> 2415

<211> 267



<212> nucleic acid  
 <213> Glycine max  
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 aagtggaaat gcaggagagc cagcaaaaact gatcaggcag agataccgtg aagccgcaga 180  
 cttgatcaag aagggaaga tgtgtgctct cttcatcaac gatcttgatg caggagctgg 240  
 tcgtcttggt gaaccacca atacatg 267

<210> 2416  
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 atacacctgc tgggcttaga ttattgaggg agaaagagct gagaaatctc agaggtgatg 180  
 gcaaaggagt tagaaactta tctgacagaa tatatgacta tgatatatac aatgatttgg 240  
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<210> 2417  
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 accagcaaaa agggtaggt ttccaaaggg aaagaaagtg aagccaggag atgaagtgg 180  
 ggtggacaaa gcaaatgttg aggagggtga agaagttgac ttggtgaatg ctaaaactgc 240

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278

<210> 2418

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556364H1

<400> 2418

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cntctgcgcc ctntctttca atgccggttc cctctactac aagtcgtctt tgctgatga 120

agctgtttac gacaaggagc gacccggagt tacatggccg aagcagtnga atgtccact 180

tgaggctgtg gatcctgaga ttggcngata ttattgagct tgagaaagct aggcaatgga 240

aggggctaga attgataccg tcaganaatt cactctgtgt cgt 283

<210> 2419

<211> 91

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556365H1

<400> 2419

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<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556367H1

<400> 2420

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cggagctgag caagagcaac aaggaccgaa tcaacacctc ttccgcattc aattccttca 120

agaacaacta cctcatcgtc tattccctca tgatggctgg agattggcta caaggtccat 180

atgtctacta cctttacagt acatatggat atgggaaggg agacatagga caactcttca 240

ttgctgggttt tgggtctcca gctcttggac aatgtcggat ctct 284

<210> 2421  
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<400> 2421

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ctctgncgtt cagaagtatg agaagtatca tgtttgctat ggaggtcaag aggaagagag 180  
ganagctaata tataccgata tggtaataa atactacgat cttgttacca gcttttatga 240  
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<210> 2422  
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acttctcct aaagccctct cctttgggtg gaggttacta tgggatagac ttcctacgaa 180  
ggacaatttg attaagaggc agattcaggt ggataataat ttatgcccat ctgtcatagt 240  
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<210> 2423  
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<223> Clone ID: 700556370H1  
  
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actctactac caattcatgt nctcttattc tt

92

<210> 2424  
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 gcgccaactg ccgcaaaccg aataaaccga atcgatctga gnnnnnnnnn nnnnnnnnnn 180  
 ncgatctcgg aggtgggagc gaaacgaaac gatgccgtct cacgcggatc tggaacgaca 240  
 gatcgagcag ctgatggagt gcaagcctcg tcggatcgga ggtga 285

<210> 2425  
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 <213> Glycine max  
 <223> Clone ID: 700556373H1  
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 tacctggtcc caccgggctc ctcgtagcga ggactcaacg accgtttagg aatcggcgac 180  
 ctcagaacct cgacggtggc atgtcgcgtc tctctttagt tccaaacctc gattccgctg 240  
 gcttcaacaa cttcaatcg gagcagcgtt caggccca 278

<210> 2426  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556374H1  
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attcaaagcc tctgaactac attctccgaa gtcataactca agaagaggaa aagcaccgaa 120  
 gcatgggctg taaggaaaaa agaacagttc cagcaaaaaga aattccaatc catcagaaaag 180  
 cccgaggatt tcatccacga gtatcgcaac aaggaagtgg accttataag aatgaagcgg 240  
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<210> 2427  
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 <213> Glycine max  
 <223> Clone ID: 700556375H1  
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 cgcagagcca agacgacggc aaggactacc aggagccggc gccggcgcca ctggttgacc 180  
 cgacggagtt tacgtcatgg tcctttttaca gancagggat agcagagttt gtggccattt 240  
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<210> 2428  
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 <213> Glycine max  
 <223> Clone ID: 700556376H1  
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 aaaagatgag aacgtggctg gggagtggaa ccacacctct ggtccaatgg aatggagacg 240  
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<210> 2429  
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<223> Clone ID: 700556377H1

<400> 2429

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tttgatatcg aaattgctgg gagatattca acgtggatac ttacttgtag tgcttagttt 180  
gagtctctat taatgaccct atcttgcag ggcgtttggg gttaaagatt acgattcttc 240  
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<210> 2430

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556378H1

<400> 2430

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tatattgtgt gtcagaagaa aactgatcag cagggagaga tccaatatag gttgactggt 180  
tttactgctg ttatcgatt ttatcactat cctgatgatt cccgattgag actaagccag 240  
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<210> 2431

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556379H1

<400> 2431

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aatccatgg ctggcttccc cagcaggaag accaacaatg acattacctc cattgctagc 180  
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actctttcct acttgccaga cctgatgatg cccattggc 279

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<210> 2433  
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 attgaagatt acctaccttc tggatccagt gttcaacaag aacggcatgg caagctccga 180  
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<210> 2434  
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accgattcat gggtttcaagt ggcttttatc ctactaccg gaatcaacag tgcctttgtt 240  
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<210> 2435  
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<212> nucleic acid  
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<223> Clone ID: 700556385H1

<400> 2435

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ttccagatat ggttcatgct cttaaaccga atcccaagaa ccacatccaa gagaattgga 180  
ggatccttga cttcttctct cactttccag aaagccttca catgttcacc tttttatttg 240  
atgatttggg tggtccacaa gattacngca tatggatggg ttt 283

<210> 2436  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556386H1

<400> 2436

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tcaacagagg gtgttactaa atacctgaag ccactctgtg ctgggtttct ttgcaaaagg 180  
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gttccaaggt ctctctaaaa ttgagtgatt gagtcatt 278

<210> 2437  
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<212> nucleic acid  
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<223> Clone ID: 700556387H1

<400> 2437



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<210> 2438  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556388H1

<400> 2438

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 gatttatact attaagttaa tgcccattaa gtttacgact ttgcttaaaa ctcgttgaag 240  
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<210> 2439  
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 <213> Glycine max

<223> Clone ID: 700556389H1

<400> 2439

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 cctctccgtc atcttctctc tcctctctcg cttcgtcccc acggcaccat cgtcctctct 180  
 ccaattgaga aaggcaccga ttcccatctc atctcatctg gctgacataa aggcaaccct 240  
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<210> 2440  
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<212> nucleic acid  
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 nnnnnnnnagt cctagaagac tcattgtggt agctgctgct gcaccaaaga agtcatggct 180  
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<210> 2441  
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 atttgataag caaacccctg gagaagaaac taatttgcct attgggagga gaaatttaac 180  
 tgcttgtcca agaaacaatg aaaggatttt aaacatggat aaagatgtat ctggttctgc 240  
 taagtgtcat ccggtcaatc accagagagg ggaat 274

<210> 2442  
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274

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<211> 279

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ttcgtgtggt gaattgtggt gtgaatttgg tgtgatgaag tgggaaatgg agatcctccc 180

tctgcatca cottacacgt acaattccaa ttggctctag atgacaacag ggaccaacaa 240

caacaccaaaa tggaccctg caggaacaag ctgtttgag 279

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<211> 278

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<213> Glycine max

<223> Clone ID: 700556396H1

<400> 2445

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ttaccctcgg gatgacttgc actgccgaaa caaacgggtc ccttgagaca tcgtgtcatc 240  
tgcaacaacc aggagtgtt tccacgatca tcacgcaa 278

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cgatctgtac gacggaggac gggtagttgc gtaactgccc gttaaccctt cgcgcacgg 180  
tgggcgtggg gcttgccttc tgaagggtgg agcccttcag attgtcttcc tcgctgggtg 240  
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aatccatggg ctggcttccc cagcaggaag accaacaatg acattacctc cattgctagc 180  
aacggtggaa gagtacaatg catgcagggt tggccaccat tggcaagaag aagttcgaga 240  
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<210> 2448  
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 ccaagatgtt gggagtgttt gtgggacttt tgttggtggg gttggctgcc tctgccaagt 180  
 ttgatgaact cttccagccc agttgggcta tggaccattt catccatgaa ggagaactcc 240  
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 cggaacaaaa aaacctcttt cggctccaat tcgaaggcgg ttcaatgtca ttgctatggc 240  
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<210> 2450  
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tacagagaga tccatggcac ttccatctct aagaaattgg tggatgaagg atctgatgag 180  
 ttccagaggg cattgtacac tgccattcgt gccatcaatg atcctattaa gtactatgaa 240  
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 ggttattggc tcaaggggtcc ccaacacaaa gatttcctct ggaagcttca agattgttgc 240  
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<210> 2453  
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 <223> Clone ID: 700556408H1  
 <400> 2453



<210> 2456  
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 <212> nucleic acid  
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<223> Clone ID: 700556411H1

<400> 2456

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<210> 2457  
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<223> Clone ID: 700556412H1

<400> 2457

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 tagtgaggat gaggcacgct tcttcttcca acaacttata tcaggggtta gctactgtca 180  
 tgcaatgcaa gtatgccatc gtgacttgaa gttggagaac acattgctgg atggtagtcc 240  
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<223> Clone ID: 700556413H1

<400> 2458

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cttgttttct ccacccctc ttcttcttca cgctccaaca gcgtttcttt cccgcctc 180  
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 cagtgtaggt ga 252

<210> 2459  
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 acattctcta ctacaactac ttggtgtttc ccataccgaa cactcttctt caatcaagcg 240  
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<210> 2460  
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 gcagtgcgga ttaaatacaag gagttacagg tcttccgttg angggttggc ctctagcatc 180  
 tggaatgntc nactaagacc taatttgggt gtccaaattc cgaagcccat ttgacagccc 240  
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<210> 2461  
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<400> 2461

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attcagttct ggagtttgtg aggggtgatta gtgcaaagca gcaagtgggt gctggagtga 180

attactacat aacattggaa gcaaaagatg gtgagattaa aaatgagtat agagcgaagg 240

tttggganag ggaatcccaa ganttctag aattcaagcc aacattaggt gcnggaggca 300

tcatac 305

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556419H1

<400> 2462

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cgtcggctat gtcggactcc accgccaan cctctganca gcaccgncag nnangg 116

<210> 2463

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<223> Clone ID: 700556420H1

<400> 2463

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ggcaatgaaa gccttagtgt gtgtgtcgaa tctctacggc ttcgcaaagc aaaactcggg 180

acttttgaga tctgctgttg gaaccgtgga agacactgta accaccgttc tgggtcccgt 240

ctaccacaat tcaacgctgt tcccaaccac atcctccttt tgctgacaac aaggtgg 297

<210> 2464

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556421H1

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gaatgatggt tgaagggttc aagatgaacc taatttacta tgatctctac cagtccacac 180  
gactagaaaa gtttatcaca gcctatgcta cattcttgaa agcaagtggg gaaacccccg 240  
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<210> 2465

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556424H1

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cgaaggcttt ccnntgaaca ttacgttcgg taattttgca gttatactgc cttgtgtccc 240  
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<210> 2466

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556425H1

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tcatggcgcg cgctccatit ccacttcaag ttgtgaggaa ccgaatgaag agtgtgagga 240  
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<213> Glycine max

<223> Clone ID: 700556427H1

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<213> Glycine max

<223> Clone ID: 700556428H1

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tatttgatc cacaagatga taaggatccc atgtttactg ctgctgttcg ccttctgcat 180  
aatcatggag aatcattaga tccattgcaa gttttagaga aactgtctcc agatatgcca 240  
ttcaacttgg cttctgacac tttactaaga atgttcaggg cca 283

<210> 2469  
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<223> Clone ID: 700556429H1

<400> 2469

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tttcttcttc cactaacctg ttgaactgaa gcaagccacg cagggtttac ctggcgtggg 240  
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 ccagtctgag aattttccag aaatattagg aganatgaaa aacttattga agcttgaatt 180  
 gtctggcctt cttggtgtaa aaggattgcc agtttcattc aaaatcttgt tggactccaa 240  
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 <212> nucleic acid  
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<210> 2472  
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accatctcct ctttctctnt gaaantgcc aacacaag atcattactc aacactagta 180  
 cttcatccan catcaaccct cttacncttt acatcagcaa actcatttnc tctccaaaac 240  
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 tggcagtaaa ggatggggaa ttcggtgagt tgtctccaga aattaggaca acagtggacg 240  
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 cgtccagagt catcttcac ccatgaaactc ttcttgctca ggtgcctctg gtactgggtg 240  
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<400> 2475

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actctaaaca actctataaa aagccacagc agacaatggc caagcttgcc aaaacctatg 240  
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<210> 2476

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556437H1

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cactcactat gcctgacttt cttgccacaa acccacttac cttttcagct gcagaatctc 180  
caagattccc ctctctcaat tcacgcccaa ctcttacacc aagaacccaa ctcaacccaa 240  
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<210> 2477

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556438H1

<400> 2477

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<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556439H1

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 aggtttgatg atatcatgat gtcacctcac tcccctatac ctcagtcccc tttgggttaa 180  
 gccacaattt gagttgccat atttctctgc accatctcag aagaagtaac tgatatacga 240  
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<223> Clone ID: 700556440H1

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 atcattcaca ctaccctaca tacctaattt attaaattct atgctaccaa ataaatttgt 180  
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<210> 2480  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556443H1

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<210> 2481  
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<212> nucleic acid  
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 acatgggtgc gcccaacctg atattgatca tatttggcgt ggagttattg caaaaggggg 240  
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 <212> nucleic acid  
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 ttaatcactt tctttaagga aactaattaa catgggagga aggggtcaca tggggtggtt 180  
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 <213> Glycine max  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556447H1  
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 ggcggtgaca cgcttcaaca cgggtgttct cctcgaccga accaacaatag gcccatcccg 180  
 aaaactcctc ccgaaaggcc actgccgttc cgacaaaaac gacgccgttc tgaagctcga 240  
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<210> 2485  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556448H1  
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 cgacgtcgga gtaacctcca aaaccaccag aagcagctcc aggttctggc ctcggttgat 180  
 tcccacttcc accgatcaca tcatcgctgc cgagaagcgc cttctttccg tcgtcaagac 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556450H1  
 <400> 2486  
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6646760

gatggctgtg ttgccaaagt tgctgcgaac tagaaatgat ggaaccttgc tccagtgtca 180  
aagacaggat aggggtatagc atgattgtag atgctgagga gaaaggactc atcacaccgg 240  
gtgaaagtgt cctcattgag cctactatgg aaacactggc ataggtttgg 290

<210> 2487  
<211> 294  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556451H1  
  
<400> 2487

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ctggaccgga cctcccttgc cgaacgggtca accaagcatc aagctcgaga aagtgaatg 180  
catcaacgcy aagttcagcy acgacggatc caagctcatg gtgacaaaat cgaactcgct 240  
gattagcgtc tacgattgca gaatcgccga agagattagg gcttttgaag tccc 294

<210> 2488  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556452H1  
  
<400> 2488

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gcccctggaa gtagaacagt aagagaacct agagttgtag ttcagacaac cagtgcatt 180  
gatatacctag atgatgggta tagatggaga aaatacgggc agaaagtagt gaagggaat 240  
ccaaatccag gagttactac aagtgtacac acccaggatg tccagtgagg a 291

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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556453H1

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 cgtgaaanag gnatcancat tgatattgct ttgtggaagt ttgaaacaac aaagtattan 180  
 tggcacagtt attgatgcgc ctggacatag ggatttcatt aagaatatga ttactgggac 240  
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<210> 2490  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556455H1

<400> 2490  
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 ctaggaatag gcctancagt agacacagct tattaatact ctnttggacc taacaatagg 180  
 acttgggtca taacaattcc taaattagct gaatttgaaa tctgcattta gccttatgtg 240  
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<210> 2491  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556456H1

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 cagaccaga gtgttggtgt ccatgggatt gctgggtctg gttcagtggg ctttagccac 180  
 tgtcttcact tatectctcg acagcatcaa agtcctcatt caggttggtt ccagcaccgg 240  
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<210> 2492  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556457H1

<400> 2492

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 tgggaccct cactcacatg gacgcatcaa cggctttaat gatcctatcc gcaatagcgg 180  
 cctatttaat atggttcacc ttcgtcactc gctncctaaa aggtccacgt gtctggcccc 240  
 tattcggcag cctccctggg ccttnatcca acacgccaac cgcattgcacg at 292

<210> 2493  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556459H1

<400> 2493

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 tcaaggccaa gatccaggac aaggaaggaa ttcccccgga tcagcaacgt ctcatcttcg 180  
 ccggaagca gcttcgagga cggccgtacc ctccggccgac tacaacatcc agaaggagtc 240  
 aacccttcac cttgtccttc gtctccgtgg tggcatgcag atcttcgtc 289

<210> 2494  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556460H1

<400> 2494

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 ccaaaccaaa actaaaacaa tggtgtctgt ctgagtttac attgagagtg cccaagttcg 180

aattcgaaag caaaaacatg tttttggcga gacccatttt ccgaggaccc tccctttggg 240  
cgttgcactc ttcttatgca ttttctctg cctctgcagc tgcta 285

<210> 2495  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556461H1

<400> 2495

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gatatgccaa tagtggtatc cttattcttg tgatatacta gtttgtatga tcatattttc 180  
tcggattgtc tagcaagttt agctcaattg gacgttgaac gaattattat aaatctatta 240  
agattatctt caatttctac gaaaaaaaaa tattttatag aattt 285

<210> 2496  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556462H1

<400> 2496

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ttgatgggat tgtgagtatt aatgctgatt ttttcgggag tagctctgtt cattacatcc 180  
ttggaatctt tgaggttctc caatatgaag gaatgggaag aatgggaatg taaaggtgtg 240  
acaggtgctt tccacgtctt caacgtcttt ctatagggta t 281

<210> 2497  
<211> 201  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556463H1

<400> 2497

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aaggaaatcg tgggaagtat ggtttaggct ataagccac tcaggcgaac atgaaaagaa 180  
gcatcgcgga aggaaaaaaa g 201

<210> 2498  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556466H1  
<400> 2498

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atgaatcgcc accacgatcc caatcccttc gaagaagaag aagtcfaatcc tttttcgaat 120  
ggcactactg ctctgcac aaagtcacgt attccaccat tagcatctna ncnactgggc 180  
tttggcctaaa ggcattgatgc tacagttgat attccttgga tactacaaat gactccaaga 240  
aaaaagggtca agagctagca gcttgggaag cagattttaa acggagagag a 291

<210> 2499  
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<213> Glycine max  
<223> Clone ID: 700556467H1  
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acaagttttg cgtcttcaaa ggaaatagga tgggagaatt gaaggacact gaggtttacg 120  
aggaagagct catnnnnnnn nnnnnnnnnn nnnnnnnnnc tcccgaattcc gctaaacccg 180  
ttactgaatc tggcaagaag gggtatgttg gcatccatag ttcgggattt cgagacttcc 240  
tggtgaaacc agagcttctt cgagccatgt agattcagga ttgagcate 289

<210> 2500  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556468H1

<400> 2500

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aaaggtggct ttttacgcac tacttatata ttttgctaca tcaatgggta cacatacaat 120  
ggctgctcat caagtcatgg tccaaaccta tttaatgtgt accgtatggg gtgaacctct 180  
ctcccaaace tctcaatcat ttatgcctga attgatatat ggagtaaate ggagttgtca 240  
aangcccga tgctctaagg tctctcgtga taatggagct atacc 285

<210> 2501

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556469H1

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ttcaaagaca aagaatactt cactcgtgac cagatgtgaa attggtgaca gtctcgaaga 120  
attcctcaca aaagcaacac cagataaggg gttgatcagg ttgttggtgt ccatgggaga 180  
agcattgaga acaatttcct tcaaagtga gacggcttca tgtggtggaa cacaatgtgt 240  
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<210> 2502

<211> 100

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556470H1

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<210> 2503

<211> 283

<212> nucleic acid

<213> Glycine max



<223> Clone ID: 700556471H1

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 atgctctaata tcttggggcc tcaaggactt gtgcacagga tgaagttttg aggatctctg 180  
 tgccctccaca gactggtgat gttccttgca gacccttata gcctcaatgg tgatgttatg 240  
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<210> 2504

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556472H1

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 ttgaggctga agctaggcca aggacattct ttgtatttgg agattcactt gttgatnatg 180  
 gaaacaacaa ttacttgngc taccacggca cgtgccgatg ctccccctta tgggattgat 240  
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<210> 2505

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556474H1

<400> 2505

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 aatgagaatg gtcccattat ttctttcnaa ggtgtcgaca acagtatgta ttacatgtta 180  
 gcacccaagg gggagtctta taactattca ggatgtggga acacgttcaa ttgcaacat 240  
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<210> 2506  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556475H1

<400> 2506

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 ttccttcctt tttctagaaa atcttcagag gatttccatt ctgtcattgc cttccagacc 180  
 tatgcagttg gaagcagtg aggatacaag aaggggtgtga cagaagcaaa actgaagggt 240  
 gccataaacg ggtttggaag gattggaagg aacttcttga gg 282

<210> 2507  
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 <213> Glycine max

<223> Clone ID: 700556476H1

<400> 2507

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 gaagtgggaa gggtagcat gaggaagacc gtcaccaagc aggtctctct aggaagccca 180  
 tggtagggcc cagaccgagt caagtacttg ggcccattct ctggcgagcc cccgtcctaa 240  
 cctaaccggg gagttcccag gcgactaggc tgggacatgc tg 282

<210> 2508  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556477H1

<400> 2508

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cagtgcacaga tctggcgaat tcgccaccgc ttcttcgcag acgcggaggt ttctgatcgc 180  
 ctgcgccacc gaaaattccg acgacttgat tcgccaactc gtttctgatc tccantcctc 240  
 ttccacgact atcagaaaca agccgccatg gaaatccggt ta 282

<210> 2509  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556478H1  
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 gaatgaacac tggctatggt gcccgactc cggaggtgaa atgcgcaagt tggaggcttg 180  
 ctgtggaagc acacaacatc tttggctttg agaccattcc tgaagagtgc gttgaagcaa 240  
 caaaggaata catccatggc ga 262

<210> 2510  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556479H1  
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 actttctcaa cctccgcggc gacgtttotca tcaaccgcct ctatcgcgac gatgtcgggg 180  
 gaaatatggt ggatgctttt aggacgcgat ttatgcaaac gaaggagctt ggtacttgcc 240  
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<210> 2511  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556480H1

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 cgtgctgtgc aagttctgga tgaaattttc cctaagaacg ccactgagca accagatttg 180  
 gtaattgtgt actttggtgg taatgattct cttcttccac atccaagtgg tcttggtcaa 240  
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<210> 2512  
 <211> 206  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556481H1

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 aatccatggc tggcttcccc acgaggaaga ccaacaatga cttacctcca ttgctagcaa 180  
 cggtggaaga gtacaatgca tgcagg 206

<210> 2513  
 <211> 126  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556483H1

<400> 2513  
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 ttcgnt 126

<210> 2514  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556484H1

<400> 2514

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tagccaaacc agcecttcag gcaaattggga aaggcttctc tgaattctct ggectccgaa 120

gctcatcagg cttecttccc ttttctagaa aatcttcaga ggnnttccat tctgtcattg 180

ccttccagac ctatgcagtt ggaagcagtg gaggatacan gaagggtgtg acagaagcaa 240

aactgaaggn tgccataaag ggtttggaag gatggaagga a 281

<210> 2515

<211> 185

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556485H1

<400> 2515

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tcaaataaat gagcatggct tctctcccca attccccgc tctttcattc tctcatntc 120

tgtccaccac cgncaatctc cttcccatgt ggccgcttca ncgcattncc ccgccgtcgn 180

gnntc 240

<210> 2516

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556486H1

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aagggtgtgca gcgtgatgga tccgttgaag ctttcatacg aggcgcgtgt gcacgcgtcg 180

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<211> 274

<212> nucleic acid  
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<223> Clone ID: 700556487H1

<400> 2517

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gacggcgatg gttgtattac tactaaggaa cttgggactg tgatgcggtc actagggcaa 180  
aaccceaactg aggcagaact gcaggatatg attaatgagg ttgatgctga tggcaatgga 240  
accatcgact tcccagagtt cctcaacctg atgg 274

<210> 2518  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556488H1

<400> 2518

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gatagagcaa ttgctgaacg tggagaagca gatgaggctc gccggtgacg tggcgggtac 180  
cagaaaagca gccaccgata ttttgcagct ctgcttcgat ggcacgagcc tggaaaacac 240  
tcaatgacca gattgtcggt ttgtcaanac gacgtggcca gctcaa 286

<210> 2519  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556490H1

<400> 2519

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cgtcatccta ctccattaca aagctatata gtctttctca tcccttgaat tacacttatg 180  
cttcgatcaa ttcccgaata gggattctat ctatcttaat tgaagaaata tcagtgaatt 240

ctgacaatat agctctgaat tcattctccac cagggctctcc 280

<210> 2520  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556491H1

<400> 2520

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gcaaaaaatt gatgccttga tatctgagat tgaaagaaca gcaccaaatt tgaaggcatt 180  
ggaccaatat gaagctctgc tagaaaaaga aagagctgta actgaagagt ttgaagctgt 240  
caggaaagag gagagggaaa aaacacagag attcatga 278

<210> 2521  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556492H1

<400> 2521

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tcagtgttac ccctttctcc ttctctttat ctttctgaat ttggcgcggt tgcattctct 180  
tcttccgaat cagagagagt ctggatttct tgttgaagat gcgagctctt ctgcatccaa 240  
aaagacgggt caatccattc caccncatc gcgcc 275

<210> 2522  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556493H1

<400> 2522

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ctaagtgtgna tggggcattc atgctatgta caagcgact ccttcgagag ataattcaaa 120  
catggaggac gtggaagaaa actcagatct tttagacatc ggcctggaca aggggaactca 180  
aatcctcatt gatgctttct ttaccgcatg tattgtggcg accattttctt catccttttg 240  
gataccatct tggagttggt aagaa 265

<210> 2523  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556494H1  
<400> 2523

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ttacgtgggg agatggctgt gcaaaaatac tcaacaacgc caatcttctc actctctccc 180  
ttgacaaggc ctctggctct ggcttccaat ccaagaacga atacttattt gggcaagatt 240  
gacatgcagc tcaagctcgt tcttggaac tctgctggca 280

<210> 2524  
<211> 277  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556495H1  
<400> 2524

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ttcttcttcc tctogcatgc tccttctctg aaccaaacca atccattatt catttgaatc 120  
ttcttataca tcccaaaaaa acccaataaa aaaggggtct ttagaagggt ctggttgatg 180  
ggtaggagag gaatcaagct attcgatgaa gaaaggaacg gtcttttttc aatttccaat 240  
tttgggtctc aaggggtggt gtttagaggtg aggtgtt 277

<210> 2525  
<211> 271  
<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700556496H1

<400> 2525

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actgtcataa gtgttggtgaa gaagggtaac tcttatttca tcagaaggcc ttatattccg 180  
gttgacaggt ttctagaagg tggcacactt ccaactgcta aggaagctca ggccattgct 240  
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<210> 2526

<211> 211

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556501H1

<400> 2526

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actgccacgg taaaagtttc ttctaagagg agtacttcaa gggctcagct agagaagagt 120  
gggtctgagg atgaggattc tgatgagcgt gttgatttga aaactgttgt ggagaaggag 180  
aagaagattg aaatgccacg tgcggaggaa g 211

<210> 2527

<211> 159

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556502H1

<400> 2527

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aacaatgtga caatcatatg agatcaattt cacatgggct tgtttggtgt ggagatttta 120  
ttttggataa ataaaaata aaggagaatt gagggaaaa 159

<210> 2528

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556503H1

<400> 2528

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tcgagactcg ttgaagctat ttgaggacga ggaacctgtt ttgcgtctga ggagactatt 180  
gaaggaagca gttgctgaag agagatttca ggatgctgct agttatcgtg atgagctaaa 240  
caaaattgct ccacactctc tttaaaatgt tgcagtgatg ctacaacatg ggaa 294

<210> 2529

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556504H1

<400> 2529

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tcttcaatgc cggttccctc tactacaagt cgtctttgcc tgatgaagct gtttacgaca 120  
aggagcgacc cggagttaca tggccgaagc agttgaatgc tccacttgag gtcgtggatc 180  
cagagattgc tgatattatt gagcttgaga aagctaggca atggaagggg ctagaattga 240  
taccgtcaga gaatttcacc tctgtgtctg tgatgcaagc gggtggatcg gt 292

<210> 2530

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556505H1

<400> 2530

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atacaagtct gaggacgagg agcataagaa gaaagtggag gccaaaaatg cattggaaaa 120  
ttatgcctat aacatgagga acacaatcaa ggatgacaag attgcttcca aactgtcttc 180  
tgatgataag aagaaaattg aagatgcgat tgagcaggct atccatggct agatggaaac 240  
caacttgctg aggctgacga nttgaggata agatgaagga gttggaga 288

<210> 2531  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556506H1

<400> 2531

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 tcttgccgca ctctattgc agggatatgct tgtagaaacg aggatggcaa ttgtttgttt 180  
 agaggattag ttgcttcccc tgatggaacc agagtgttag agacatccag ggttggtcca 240  
 tatgctgttg aagatatgat tgagatgggt aaggatgctg gcaagga 287

<210> 2532  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556507H1

<400> 2532

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 tgctccgctc tccactgtac ggagctgtca anagagctct tttgaacctg aatgggtctg 120  
 gacctggggt ttcagctccc agttcatcct tctttgggag cagcttgaag aaggttattn 180  
 gctcaagggt ccccaacaca aagatttcct ctggaagctt caagattggn gctgnagaag 240  
 agnaganaga gatgnagaga cccagcagac cgacaaggac agatgga 287

<210> 2533  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556508H1

<400> 2533

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gatttacntg gactccgatc tgggtgtagt ggatgacgtg gcgaaactgt ggagcgccgg 180  
tctggactcg cgtgccatcg gcgcgccgga gtactgccac gcgaacttca ccaagtat 240  
cacggcgggg ttctggtctg agtcgagttg tcgggga 277

<210> 2534  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556509H1  
<400> 2534

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gggccaagat tccttctctt gggttaggga cttggcaagc tgaacctggt gttgtagctg 120  
aagctctcac cacagccatt caggttggat acaggcatat tgactgtgct agtgcgata 180  
agaatcaagc agagattggt tctgctctta agaagctttt tgatgatggt gtggtgaagc 240  
gtgaggactt atggatcact tccaaactct ggtgttcaga tcatg 285

<210> 2535  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556513H1  
<400> 2535

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ccatgaagaa acaaggctag cagttgtctg tgaaagggcc tttcttcaga ctttggatgg 120  
gtcttgccgc actcctattg caggggatgc ttgtagaac gaggatggca attgtttggt 180  
tagaggatta gttgcttccc ctgatggaac cagagtgcta gagacatcca gggttggtcc 240  
atatgctgtt gaagatatga ttgagatggg taaggatgct ggcaa 285

<210> 2536  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556515H1

<400> 2536

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tactctgaat tttccggcca gaaaccggcg aggtcgccgg agaaatcgag cttctctcag 180  
acttcgagtc tgttgagtca atacatcaag gagaagggtg gcttcggaga tcttaccctc 240  
ggaatgacat catgtgggtc acctgagaca tctgtcaatc tgctacaa 288

<210> 2537

<211> 158

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556516H1

<400> 2537

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actctgttct cgtcgcatgc acataaacia taacaaatgg cttccacaac tatgttggtg 120  
ntggctgtgt tcatgattct atgtatatca caccctc 158

<210> 2538

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556517H1

<400> 2538

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ggaaaagggt cacatcagta ttgtgggtat tggccatgtt gactctggga agtcactac 120  
cactggccac ctgatctaca agcttgaggg cattgacaag cgtgttattg agagatttga 180  
gaaggaagct gctgagatga acaagaggtc tttcaagtat gcttgggtgc ttgataagct 240  
taaggctgag cgtgaaagag gaatcacaat gatattgctt gtggaagttt gaaacc 296

<210> 2539

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556518H1

<400> 2539

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 gggcacttga tgacactatt atcacaggag ttcctactac aattgattat cataaactta 120  
 tccttgacat agaggatttc agaaatggaa aggttgatac tgcttttatt ccaaaacacg 180  
 aggaagagtt ggcaatggta agaacccaat ataaccttga aaatattaat gtccctaaca 240  
 atggatttaa aaattacttt cgttggtgaa gctgaccant ttggtaggaa aactc 295

<210> 2540

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556519H1

<400> 2540

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 atgaaaactg gctatgggta gcgttcttcg gaggtaaaat gcgcaagttt taggcttgct 180  
 gtggaagcac acaacatccg agcctttaa accattcctg aagagtgcgt tgaaccaaca 240  
 aaggactaca ttaatggcga acatttagat cagatctaaa acagttaac 289

<210> 2541

<211> 237

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556520H1

<400> 2541

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 gngttatcag gannccctct gaatcngggg attaagagag gattntgcan cagagggtaa 120  
 agttgtcagc aacaacnggc ccncatgcag caanctttgc ttcancagnn gcagatgaac 180  
 caccenggna tgctcgccgc tgctatgcct canatggagc ctgttccaat ggaaatg 237

<210> 2542  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556521H1  
 <400> 2542  
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 cgcgtttccg aattcagaat cactacgttt ctcgnttctc ctttcgttcg angcatgaat 120  
 gcaggggctt naccgcttca gacttcagta ncagagtgac agancattag naactcaaaa 180  
 aagtangcgn cacgatgtna gnaaccatgg ancgtgaaaa cnacnacagc gccaaaagcg 240  
 tgtcaacggt cngcgacgcg tgggctnctn tacgacgnnn ngagtgcaa 289

<210> 2543  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556522H1  
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 tcagcctttg cctcacaatc tatgggattt catcttttaa cgaaggagac ccatccactg 180  
 ccccgtcact gaccttgacg ggccgcaaga aggagccga tcagctccaa actgctgatg 240  
 ggtgggcaaa gttcacccga ggcttcttct tcggaggcat tcg 283

<210> 2544  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556523H1  
 <400> 2544  
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 aatttttaggt tcttcgttac gcgttggtt gcnttggtgcg tgagaaagtg cgcgtggtga 120  
 aaaagcatgg ctctcagct cctgagacga accttcggaa gtcgtttcct tgcaaacctt 180

agggccttct ctccgctgct tccactccgc atccgcgcca ctctcttccc cggcgacggc 240  
atcgggcccc gagatcgccg attcgtcaaa cagatattcc aagc 284

<210> 2545  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556524H1

<400> 2545

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tattggaaga aagttcgaag ataaggaagt tcaaagagat atgaagcttg ttccttataa 120  
gattgtcaac aaggatggaa aaccttacat acaagtgaag attaaggatg gtgagaccaa 180  
ggtgttnagc cctgaggaaa tcagtgccat gattctgact aagatgaagg aaactgcgga 240  
agcattcctt ggaaaganat taatgatgcc gtggtcantg tccc 284

<210> 2546  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556526H1

<400> 2546

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atccaaccct tccaccaat atttttggac catcttaatt gttaccaatc tagttanggg 180  
gttaaagact ctctgttttt aaaaaaanna anattgnaaa aanaaaaang ggggnccgcg 240  
ntnnntgatt ccnggaccgg ngttnaatng ggnncngntc 279

<210> 2547  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556527H1

<400> 2547



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 gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180  
 ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggt gctgaaatgg 240  
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<210> 2548  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556528H1

<400> 2548

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 acaggagcca aacccttctg gcctctgcta ttggaggcaa agttggtgct gctgttactg 180  
 ttaatcccag aagactcatt gtggtagctg ctgctgcacc aaagaagtca tggctccctg 240  
 gtgttagagg tgggtggcaat ctcgtcgacc cagaaggctt gat 283

<210> 2549  
 <211> 286  
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 <213> Glycine max

<223> Clone ID: 700556529H1

<400> 2549

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 ttgtcggcga tagggtagat tgttgatctg aaagtggaga tgtgagtgtt acggatcaac 180  
 ttgattcgta aactgctncg aagaaagttt acggatcaag ttgatccgta agcatcttcc 240  
 agatcaactt gatccgtatg atacttacgg ancaacttga tccgtg 286

<210> 2550  
 <211> 284

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556530H1

<400> 2550

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tggcggttg gctggcttg tggctgcgc gcatgcatcg gcggcggcgg cttctgaagt 180  
ggcggcgatg gctgaagctg cctcgaacga caacagggga cagcttctgc tgtttggtgt 240  
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<210> 2551  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556531H1

<400> 2551

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tttgtggacc aacctgcttt tacggatcta cattggggat gttgttcct gctatcaaag 180  
gacnaggaac tgaggaacag cagnngaagt ggntgccttt ggctcataag atgcaaataa 240  
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<210> 2552  
<211> 158  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556532H1

<400> 2552

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aacaccanncc aactanncc aacnncnnaa naagctcc 158

<210> 2553  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556533H1

<400> 2553

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nantttgga gcatggcaat gccatgnga acgatatgtt nccttctccg aatgaaccac 120  
tggctatggt gcncgtactc nggaggtgaa aatgcgcaat tgggggcttg ctgtggaagc 180  
anacaacatc tttggcttng agaccattct tgangatgcg ttgaagcaac aaaggantac 240  
ntccatggcg aacatataga tcagactcna aaacagttat ccacaagtta tttnt 296

<210> 2554  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556534H1

<400> 2554

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gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180  
ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggt gctgaaatgg 240  
gtgtgcccgc tgagaacgat ggctgcaaat gtggaccaa tgctcctgca ac 292

<210> 2555  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556535H1

<400> 2555

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aatgcataga caciaattag aaagagatga ccaacttttc aaggccttcc aatattttga 120  
taaagacaac agtgggttta ttacaagaga tgaactagaa acagccatga aagaatatgg 180

tatgggtgat gatgccacaa tcaaggaaat catatctgaa gttgatacaa ttatatctga 240  
agtggacaca gatcatgatg gtagaatcaa ctatgaagan tctctgcgat g 291

<210> 2556  
<211> 151  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556536H1

<400> 2556

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gcagctcctc cttccttgaa gcacaaaatc atctcttgta acatccaaaa ttatcacaaa 120  
aaanannaaa aangggcggc ngggtctaaa a 151

<210> 2557  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556537H1

<400> 2557

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tcaatcactc cccacctttg gaattcaagg gtttgagcaa ggaggaggaa gactcattgc 180  
tagggcaagt ggaaatatgg aggtacatga catgcttcac ggactccgtg gccttgaaag 240  
ctgtcataga gcttcgtata gcggacatat agaccgntat ggt 283

<210> 2558  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556538H1

<400> 2558

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ccactgctgc tggcttcctt ggcatgtcag aaatgcttgg aaaccccatc aacctcagt 120

gtgccacaag gccagctcca tctgctcta gccctgcctc cttcaagact gtggctcttt 180  
tctccaaaaa gaaggctgca cctccaaaaa aagctgcagc tgctgctcct gccaatgatg 240  
agntgccaaag tggtaggtcc tgacagaaga tct 273

<210> 2559  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
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ccgccaaagt aaatgtgctg tccaagtcca accacaagta gcaccacgaa ttacacctga 180  
tgagagcctg caggtgaaga gaagaactct cataggcctt ctagcattga tgctgtcctt 240  
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<400> 2561

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gnacgcctca ccgaggagcg caagtccgtg gcggaagaac catcccatg gttttgntgc 180

gaaccggaga cgctgcccga tggaaccgtg aacttgatgg tgtggcattg cactattccc 240

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<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556543H1

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caccancanc cactccatcg tttagtcctt ttganganac cagtctcagt tacttagaga 180

caccgtggac gaaaggaang cgttctaagc gtanccggca cggagcaaca actgcaacac 240

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<213> Glycine max

<223> Clone ID: 700556544H1

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ctttctcttg ttatcacagt tgttctttca acttgcatgg tgtggctcca tagtaaagtt 180

ccttcttgga ttagaggagc cccttccttt tgttcttgaa accgggtatg tgggagtggg 240

tgaatcagag gatgtgcagg cattctacta cttcattgag tc 282

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<223> Clone ID: 700556545H1

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tgtcagcgag tatgaagcta ttgcaaagca gaagttgcc aagatgggtgt ttgactacta 180  
cgcatctggt gcagaggacc agtggactct gcaggagaac agaaatgcct tttccagaat 240  
tttgtttcgg ccacgtattc ttattgatgt gagcaagata ga 282

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<223> Clone ID: 700556546H1

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tcaaattgaga cccttgcttc tatctatgtt gaagccattg aggtgggtta ccgtcatttt 180  
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<213> Glycine max

<223> Clone ID: 700556547H1

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 ctattccgat tccatnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccttccttga 240  
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<210> 2571  
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 <223> Clone ID: 700556553H1  
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<210> 2572  
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<223> Clone ID: 700556554H1

<400> 2572

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<210> 2573

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556556H1

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<210> 2574

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556558H1

<400> 2574

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gcaactagtg ccatcaanca ggttgcttct ggaaggnttn gtgtcacccc aanattcttg 180  
gcaaagtctg atcagttaga aatcaagatn gcacaagggtg caaaacctgg tganngtgga 240  
caattgcctg gnaaaaaagt tagcatgtat attgccc 277

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<210>      2575
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aggcggcgaa tgggaataat aatgggtggt ctagcatgct gccggagatc ctcggcgaga   180
tcgtgcggcg cgtggacgcc gccgaggagc agtggccgaa ccgccaaaac gtcgtcgctt   240
gcgcgtgcgt ctgcaagagg tggcgtgaca tcacgcgc                                278


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<223>      Clone ID: 700556560H1

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ctttttgtga agtaaaaaaa ctaccctcga tccatgcctc aaaagggttg ataataagta   180
aaaaaaatca atgaattcat gataaaaccc ttctgcgttt ttttattata aatttttttg   240
tcaataaagg gatcaagggg ttgggggatc a                                    271


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<223>      Clone ID: 700556561H1

<400>      2577

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<210> 2578  
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<213> Glycine max  
<223> Clone ID: 700556562H1  
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cttttgatga tgatttcaat gatggctgga agatcaccaa ttccaatgga ccccttttct 240  
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<210> 2579  
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<213> Glycine max  
<223> Clone ID: 700556564H1  
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attaggtttt gaagggcaca caaatatatt ccaaggttgt gtgaaaatgc gaatgagttg 240  
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<210> 2580  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556565H1

<400> 2580

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gtggatcctg agattgctga tattattgag cttgagaaag ctaggcaatg gaaggggcta 240  
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<210> 2581

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556566H1

<400> 2581

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agagatacca gatgtatcct gtctctcaaa attgganaaa ttgtcatttn anacattggn 180  
aggaatttat ttncaattca cccttcagtt ggtnnnttg acaagcttaa nntcntgggn 240  
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<210> 2582

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556567H1

<400> 2582

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ctgttgctga gaaagttggg aaccttgacn ctgagaggct caatgttagc aaaacagaag 240  
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 <212> nucleic acid  
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<223> Clone ID: 700556579H1

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ctcacagcat caacatatgn ngctgctcct ggtcctgatg aagttgagat gaaggatgat 180

gggaaagaag atgtatatgg gcaggatgaa ggagaaacgt cacatgctta ttcagtctag 240

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ggttctacna tcagagccac gtcacatcc tcaaccctt ccgcaaccat tgcngaacct 240

gaaggcataa gattaaatcg attccaacca nccccattga tggnc 285



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gtatatgatg acgaagtgag gaagtggatt tctggtggtg gtgttgacgg cattgggaag 240  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556589H1  
  
<400> 2599

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gatggcagga acagaattat tgaatataag aatcctactc tttacaagga tgatgaaaag 180  
ttgaaggcct tgagtgggat gaaagaaaca gggtatgttc ctgacacaag atatgttctt 240  
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<212> nucleic acid  
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<223> Clone ID: 700556590H1

<400> 2600

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agagtgtgta gtgcagagca aaggggtgggg cacctggatt caaagttgca attttggggg 180  
ctgctggggg aattggtcaa cccctttctt tgctgatgaa gatgaaccca ttggtttcag 240  
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<212> nucleic acid  
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<223> Clone ID: 700556591H1

<400> 2601

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ttggggctcg cattcctaaa ggagttctct tgttggctct ccaggaactg ggaanacctt 180  
gttagccaag gctattgctg gtgaagctgg tgttccattt ttctctatat caggttctga 240  
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<210> 2602  
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<212> nucleic acid ..  
 <213> Glycine max  
  
 <223> Clone ID: 700556592H1  
  
 <400> 2602  
  
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<210> 2603  
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 <213> Glycine max  
  
 <223> Clone ID: 700556593H1  
  
 <400> 2603  
  
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<210> 2604  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556594H1  
  
 <400> 2604  
  
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 aaccccatgc aacaccgtct tcgatgccaa gaggttgatt ggtcgtagat tcagtgactc 180  
 ctctgttcag agtgatatca nattgtggcc ttttaaggtc attgctggtg ctgctgacaa 240

gccaatgatc gtggttaata caagggtgaa nagaagcc

278

<210> 2605

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556601H1

<400> 2605

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tcgccgtgaa tttcntcagt gggaagacgt atgtgttata aagaacgatg ggagcaagga 180  
gtgccatngt acggggaact tgcnnagacn tgcggggatc agtcagcagc ngctgaacag 240  
gatttcgacg agtaatcccn gnatttcact agggtttatg gaggtangtt gcagcnaac 299

<210> 2606

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556603H1

<400> 2606

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atatgcagca cttggtgctc ctactttgta tgacancctg gcccaattta tggaagagga 180  
gacccttctc ggagaactag taaganaatt tttgttggcc gtcttcccc agaagcaact 240  
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<210> 2607

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556606H1

<400> 2607

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 ccccggcacc cgactacgtg aacctcaccg agttgctcag tgttgctggt ccatttcaca 240  
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<210> 2608  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556608H1

<400> 2608

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 caaagaaatt tcagtgtacg tttcgtctga tttttgggnt actgcttgag ctcgatggga 180  
 gatgtggcta aggaccttnc agctgggact gttggagggg cagcacagtt gatatgtnga 240  
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<210> 2609  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556610H1

<400> 2609

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 atgaatctct tgaaggatct cttaaattatt gtatcaacgc aataaagtgg attttttggc 180  
 ttcccagtca gctggttgga atgatgatgc tgttcagggg tctcttgact gtgctgcatt 240  
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<210> 2610  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556611H1

<400> 2610

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gttgttcatt ggcataacag ggggggtacct gcccgaccat tacatttatc caggggagtg 180  
gagaaaccaa gtgggagggg cacatacaca gttgttcttg aaggtttatg cagatttagt 240  
gtccaggaac tgagcacaag aggaatatac catactgcga ggataacttc 290

<210> 2611  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556612H1

<400> 2611

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ggagtttggg ttggaagggtg agatggagag gtgaggagag acaggacagt gttgatggct 180  
gaaattgtga ggttgagaca acaacagcac aactcgaggg agcaattggt gtccatggag 240  
actaggttgc aagccactga gaagaaacat caacagatga tgaattttc 289

<210> 2612  
<211> 290  
<212> nucleic acid  
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<223> Clone ID: 700556613H1

<400> 2612

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gggggatgat aaccagggtt gaggtttgat ctatgagcct gggactatc accacttgaa 180  
gtatactaag tttattaggt cctataacat gtcnttccct atagnattta tatcatatag 240  
natgtcctat aatatctatt tttcaaagcc ctgtatgtaa catgtcctat 290



2613  
2614  
2615

<210> 2613  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556614H1

<400> 2613

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attggcactc ctggaaaggg tattcttgct gctgtgagtc aacagggaca attggcaagc 180  
gtttggccag catcagtgtg gagaatgttg aatccaacag gctgtctctt agggagctgc 240  
ttttcaccgc tcccggtgct cttaaatact tcagtgggtg catcctcttt gagg 294

<210> 2614  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556615H1

<400> 2614

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gaaggtggtt ttggaagggt ttacaagggt cgtcttcaac gggagagtat gttgccgtta 180  
aacaattgat tcatgatggt aggcaagggt tcatgagtt tgtgacggag gttcttatgt 240  
tgagcctgct gcacgattct aatcttgtca agttaattgg ctactgcact gatgg 295

<210> 2615  
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<212> nucleic acid  
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<223> Clone ID: 700556616H1

<400> 2615

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<210> 2616  
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 <212> nucleic acid  
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<223> Clone ID: 700556618H1

<400> 2616

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 ctactgcgcc agggttcaca tcgtgtacac cggagaccac agaacgagga gcctgaggcc 180  
 taccacatca gaaccctcac ttcagtcctt ggcagtgagg aggctgcaaa ggaagctttg 240  
 ttgtatagtt acaagtctgc agccagtggg ttctcagcta agcttactcc gga 293

<210> 2617  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556619H1

<400> 2617

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 tgtatagaga agtatnctta aanctatggg aggcttcatt caagatttgg ccctcagttg 180  
 gcagctggaa attcattctt tctgggtagn aactggctgg ggtttgaccc aactaactac 240  
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<210> 2618  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556622H1

<400> 2618

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gctataaaca cacttgtgtg tgaagttata ttcctagaaa agaaatatta ctatcctttt 180  
gaaaatcatt tgaaattttt aactccatct tcttcacctc tggatctgat cttcgcacgg 240  
tgccatggat cgaatcctga aagcggcgag agcctctggt tctctcaa 288

<210> 2619  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556623H1  
<400> 2619

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tgattcctgg ccctgctgag aaacctatgt tgtggtgaac tacaaggggg aggagaaaca 180  
gttttccgcg gaagagatat cctccatggt tcttatgaag atgaaggaga ttgcggaggc 240  
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<210> 2620  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556624H1  
<400> 2620

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tattttttga atttgtgatt ttgaaacacg catattctta accatattta catttattaa 180  
gaatcatctg totaatcata catttacatt tacatttact tattggattg ttaaaatatt 240  
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<210> 2621  
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<213> Glycine max  
<223> Clone ID: 700556625H1

<400> 2621  
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<210> 2622  
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<212> nucleic acid  
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<223> Clone ID: 700556628H1

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gaaagaccta gtttccagtc tgtatcaggt ttgctaacaa ttggtcctcg atttgggggt 180  
gccatcgatg atgctgctcg ctacttcaag gatgctcatg acagggcact tactccttat 240  
gagtttgttg aaggtatgaa aaagaaggga attcgtgtgg 280

<210> 2623  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556629H1

<400> 2623  
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ctggcaacat ggaaatgcct gaggaggaaa gtttgagagt ccgatcctga aggttgggga 180  
ggagaaggag attgggaaaa tggggctgaa gaagaaattg ctcaaggaag gtgaagggtg 240  
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<210> 2624  
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<213> Glycine max

<223> Clone ID: 700556630H1

<400> 2624

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cggagaagtt gagggattgg tttctcggaa nattgctagc tggggacttg ttctgaattc 180  
attcgcggag ttggagaagc cttattttga gtttctgaga aaggaattgg ggcacgatcg 240  
tgtgtgggcg gttggaccgt tgctccctga ggacgcgaaa gaggagcgag 290

<210> 2625  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556631H1

<400> 2625

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gttcggccgc gccctcttct tccaagccga cggctcctac agcatcactc tcacccccgg 180  
cgacggcatc ggccccgaaa tcctctcggt ggccaaagac gttcttgtcc tcgccgggta 240  
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<210> 2626  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556632H1

<400> 2626

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gcgggagaaa tctcttcttt aaagttgaag aagcaggact gttaaattgg ctccacatct 180  
cttctttaca tttgaagaaa atgggcctcc accccaacg gaaaagttgg ttgtgtttgg 240  
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<210> 2627  
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<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556633H1

<400> 2627

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 ctactgcgcc aggggttcaca tcgtgtacac gagagaccac agaacgagga gcctnncgcc 180  
 taccacatca gaaccctcac ttcagtcctt ggcagtgagg aggctgcaaa ggaagctttg 240  
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<210> 2628  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556634H1

<400> 2628

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 ataaggatg ctgatatgca ctattcaata ggagcattag ctatgtttgt taatgtcact 180  
 ttatgttatg tgggtaagtc acctaagaca ctccacgtac ctacttggtg tctcttacgc 240  
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<210> 2629  
 <211> 241  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556636H1

<400> 2629

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 gagtcagaaa caaggggaaa tgggtgtgcct ggccctgatt tttgggtcctg gacacccctt 180  
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g

241

<210> 2630  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556637H1  
  
<400> 2630

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gtaaattaga atgaactgtc agcagcattc gctcc 95

<210> 2631  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556638H1  
  
<400> 2631

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gatgatanan gcttcttcca ctatgcattg cgcacttctg cgcttttggg ttcctngtt 120  
gctgcttgct agcttcagct atgcccttct gcttcggcca caactgaaat tncagggant 180  
gnngtganca nagatgggna ggtgataant gaagagttag cnnnancaag tctacnaggn 240  
catgnngnng agtccagttc nnaggattta ctccacaacc at 282

<210> 2632  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556639H1  
  
<400> 2632

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gtggtgggtt tgtgagaaca agagagtgc gcttatgctg aatgggagcc cctactatgc 180  
taatggcttt aatgcctatt ggntaatgta tnttgctct gatccttctc agagaaacaa 240

agtctcatca gtgtttcaac aggcttcaaa tcatggcctc aa

282

<210> 2633

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556640H1

<400> 2633

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taatttttagc gcagagtttc tggcggggatg caggaaatga taaggaagga ggtgaggagt 180

tatatggagt tgcacaatca gaagaatggg atgtgttttc aggctgagggt gaatgatggg 240

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<210> 2634

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556641H1

<400> 2634

agaagaacaa gtagttgaga actaagaagg agaagcaa atgcttctca atgatctctt 60

ccccagctgt taccactgtc aaccgtgccg gtgccggcat ggttgctcca ttcactggcc 120

tcaagtccat ggctggcttc cccaccagaa agaccaacaa tgacattacc tccattgcta 180

gcaacgggtg aagagtgcaa tgcattgcagg tgtggccacc agttggcaag aagnagtttg 240

agactctttc ctacctgcca gaccttgatg atgcacaatt gg 282

<210> 2635

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556642H1

<400> 2635

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 atcatcagct gaagaaagtt ttgaagagcg ctacaatcat tttcctcatg agtgnccgatg 180  
 attgaatttc tttcaagagt tgaatgggtg gaggtcttcc cgtgcaattt ttacacctta 240  
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<210> 2636  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556643H1

<400> 2636

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 caggcatcta atttggcgaa cttttctcta aacgattcga tttggngcaa cagttacatc 180  
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 ttcaagtcaa ag 252

<210> 2637  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556644H1

<400> 2637

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 cggaaactac tcactttggt tggtgtgtct ccattagata gaacattgca aagtacttga 180  
 tacagccata cttgactttg ttatcaagca aatttcaaaa gactcctaaa caaacacaga 240  
 acaaccaaca gttcaatga ttgttgttca aagcttatgc catt 284

<210> 2638  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556645H1

<400> 2638

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 catcaacagc cacagcacag ccacaggtgt atgaacagca atatccccag ctgcagcagt 180  
 ggctgtggct ggcaggcatt gtcacatcga gtgagttacg tgtgggttgt ggaagaggat 240  
 ggaaccttga cggggattgt tactttccaa ggaatg 276

<210> 2639

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556646H1

<400> 2639

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 ctttttgtga agtaaaaaac taccctcgat ccatgcctca aaagggttga taataagtaa 180  
 aaaaaatcaa tgaattcatg ataaaaccct tctgcgtttt tttattataa atttttttgt 240  
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<210> 2640

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556648H1

<400> 2640

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 tgggcttaga accacttcat gtgtcacata gctaacagtg ctagagaatc ttctttttt 180  
 gatcttgtag cttcccaact cactcccaag accaatggat caactcctgt gaggggagag 240  
 acagtggcca agttgaaggt ggcaatcaat ggtttcggac gcattggtag aaa 293

<210> 2641  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556649H1  
 <400> 2641  
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 atcgtctcac cagagccgca aggtgttggg acaacttagt ggatncnacc ccagtgtttt 180  
 ccaaagcaag gtacactgtt cgttcctttg ggattagaag aaatgagaag attgcatgct 240  
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<210> 2642  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556650H1  
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 atgnctcaac tcctccgtct ctctctctc gccgcaccaa ctaccgttc tccccttgta 180  
 actttcgtgg cccaaacttc cgattgggct caacaagaag aagaacagag cctcgctgaa 240  
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<210> 2643  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556651H1  
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atgaggaaga ccgtcaccaa gcaggcctcc tccggaagcc catggtacgg cccagaccgc 180  
gtcaagtact tgggcccatt ctctggcgag cccccgtcct acctcactgg cgagttccca 240  
ggtgactacg gctgggacac tgctgggctt tcggccgacc cagaa 285

<210> 2644  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556652H1  
  
<400> 2644

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cggaatcgat ttgggaacga cgtactcttg cgtcggcgtg tggcaacacg atcgtgttga 180  
aatcatagcc aacgatcagg gtaacagaac taccatcc tacgtggctt tcaccgacac 240  
agaacggttg atcggcgatg cggcgaagaa ccaggtcgct atg 283

<210> 2645  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556653H1  
  
<400> 2645

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cttcctacca cgtcctggg cgcgcgagg cctcggctgc tgctgogggt gcctcttcag 180  
cctcatcttc aagctcatcc taaccgtgat catcatcatt ggcacgcgcg tggtcctttt 240  
ctggctcata gtccgtccca acgtggtgaa attccacgtc ac 282

<210> 2646  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556654H1

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 actccttccg ttacaggaaa ttgagaatgg aatgctgtgg gaagttgagg ggaagtgggt 180  
 tgttaaagga gcagttgatg tagacattgg tgcaaaccct tctgctgagg gtggaggaga 240  
 agatgagggga gttgatgatg cagctgttaa gg 272

<210> 2647  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556655H1

<400> 2647  
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 tgatgccgcc gcagcctcag ccctcagat gtgggccaca tcggcccagc ctccgtccca 180  
 gtcggtggct cctccgcaac ccaccagcgc cgatgaggtc cgtaccctct ggatcgggta 240  
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<210> 2648  
 <211> 283  
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 <223> Clone ID: 700556656H1

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 aatccgcaac aacctgggtg agggattgct caacaagctc gtctctcgt ccctctccgt 180  
 cgccggaaaa tggcagcaca accaactccg cngacctcaa catccacgag taccagggcg 240  
 ctgaattgat gagcaaacac ggagttaatg ttccgagagg cgt 283

<210> 2649  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556657H1

<400> 2649

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 gtgacatcta caaacaccta ctgaatccga ggaaaagaaa aggccttcca ctgacttcat 180  
 ggacacaatt cagaaggaca taaatgtag catgcgcgct atattggttg actggcttgt 240  
 tgaggtggct gaggagtatc gtctgtacc tgaaacatt 279

<210> 2650  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556658H1

<400> 2650

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 cgaggcttcc tacgctccag tccacctccc cagcccaaac ctcttgtcga ttgggtccacc 180  
 ggctctgtg actgcttctc cgaatgtgga aactgttgca tgacgtgttg gtgtccatgt 240  
 gttacctttg gccgagttgc agaaattggt gacaaggga 279

<210> 2651  
 <211> 216  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556659H1

<400> 2651

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 aactgccaat ggctgcctca gtctccactg ttggagctgt caacggagct ccactgagct 120  
 tgaacagctc tggagctgga gttcagttcc cagttcagcc ttctttggca ccagcttgaa 180

tcaggttatt gcctcanggn tccctaacgt caagat

216

<210> 2652

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556660H1

<400> 2652

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ttggacattg agctgtggcc gaagaggctc cgaaggccgc gaggaacttc gttcagctct 180

gcctcgaaaa ctattacgac aacaccatct tccaccgat catcaaggac ttctcgtcc 240

aaagcggcga cccaccggc accggcaccg gtggtgaaag 280

<210> 2653

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556661H1

<400> 2653

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aagaggcttt tgggaacgac gtcgttgggc gttaggggtc cggcgaggct gtaccacgag 120

aggggtgtgg atcactacga caaccccgga acgttggatc gttagacaag aacgacccga 180

gcgtggggac gggtttggg ggggcgccgg cgtgcggcga cgtgatgaag ctccagatta 240

aggtcgacga caaaaccgga aaaatcgctg atgctcgatt c 281

<210> 2654

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556662H1

<400> 2654

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aatgcatatt tctacgcaag gactgcttct cctcaaagct cgcgtctctt ccaacttctc 120  
 cttccgagat gccctttggg cacaaccgtt ggtttcgcag gttgtcgggt tttccacgtt 180  
 tgcaactatg tcaagggctg agaaagggtt tctccaaaaa catggcttgc agtgtcagtg 240  
 tggataatgt gatacgggtc atccagcaac agatgcttat gctgg 285

<210> 2655  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556663H1  
 <400> 2655

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 ggcaatgggt tcttcgctt cttcccctcc cagtcacaat atgcagacag cgttgaatct 180  
 gaagcaggag ctgatactat tgactataaa tctttaaccg atgaagagtg gaagaagcgg 240  
 ctcacaaatg aacagttcta tattactcgt cagaaggga ctgaaaga 288

<210> 2656  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556664H1  
 <400> 2656

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 caaaagataa aggggactat ggtggttatg cagangantg tgttgatat caacagcatc 120  
 accagtgttg gagggatcgt gaccaaggct taggcttcat aggcagtgc gtcgatgcac 180  
 ttacttttgc agccaccaa atctccatcc agttgattag tgctaccaag gctgatgggt 240  
 ggaaaggaaa aattggaaag agtacaatt taagaggana gat 283

<210> 2657  
 <211> 253  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700556665H1

<400> 2657

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ctttcngatn cntccaatnt ctcattcagn tntgtgctca anccttttaa gtncccttcac 120  
aaaanccaac ttcatncatg acttcacgnt cntcaaccac ccaaattcag tgtgggtctga 180  
gagaactcag aanncgcatg gattncgtga agaacactca gaaaatcacc gaggtctatga 240  
agcttgtggc tgc 253

<210> 2658

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556666H1

<400> 2658

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cggcaagatc anggtctcca cngtgcacgc catgtcgggt ctcanggact ctagnagnacc 120  
ctccggcgga anntntctnc ccgaaacgac accgttttgc aggggttggt gtnnnntaat 180  
aatgccacgg gctngcnctt tannattnac ccttaccctt actttgccta cagaagcgac 240  
tntggcagng ctgataacct ngcttatngn ctttccancc taac 284

<210> 2659

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556667H1

<400> 2659

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tcatagttag tttgatccaa actcggagaa caacttccta tgttcataa caagaacgat 180  
nnnnnnnnnn nnnnnnnnt tcaccgatgg nccacatcg atgcaatcaa agccatcctc 240  
cactacgcgg acctctcaga ttgtccctca acnatctctt tc 282

<210> 2660  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556668H1

<400> 2660

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 ctaaccacaa atctctgggc ggagaactat ctaagcttgc agctaagcc ttcttggccc 180  
 aaaggatttc atctgtcaat gccatgtcag cactttgtga ggctaccggg gcaaagtgtc 240  
 aacaggtgtc ctattctgtt ggaacagact caaggattgg 280

<210> 2661  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556669H1

<400> 2661

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 gcttttacta ccttcaatgc ttttgaaga aatgcttgca catgcaaatg gatattgttt 180  
 cagttgttcc tccatggcaa ttaattccag ctgaaggaaa aattgaggaa tgttcattgg 240  
 aggaactggt cttgaaaaga atcagaaaaa ccagta 276

<210> 2662  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556670H1

<400> 2662

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<400> 2665  
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cggagggttcg agagcgaggg gatccgatct tccagaggct tagggccttg aacggagaga 180  
ggagtcgctt ggccgagagc ttgagtata actatggcga tttattccc atcttgagac 240  
cctttttgaa gggttacttg aagatttgta aggagg 276

<210> 2666  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556674H1

<400> 2666  
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nnntacaca ctctccacc ccacctctc ctctctctcg ccttccacgg ccccgcatgg 180  
gagaatcagg tccgccactc cgcctcccc cgcnncccc cagggcatgt cgggtgctggt 240  
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<210> 2667  
<211> 256  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556675H1

<400> 2667  
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caaaaaaaga aaaaaacaca caaacttaac ccaaaactgt aaccccagta tgccatgctc 120  
acaccacacc attctcttct cctctctctt ctctctatnn tcttctcttc tctctccgctc 180  
accgctgcaa gaacctcttc ttccattcc ttacgtattc aagatggaat tgaggggtggt 240  
ggcgagggag agcata 256

<210> 2668  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556676H1

<400> 2668

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 gcccagaagg tgttcggggc gtaattcaga caatacatta atcaaagaga aacttggctg 180  
 ggctccaact atgaagttga aggatgggct gagaattaca tacttttggg tcaaagagca 240  
 gcttgagaaa gagaaggcag aaggtgttga tttatca 277

<210> 2669  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556677H1

<400> 2669

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 tccccagaa gagcctcaga agttcgccaa tgtgcacaag atatttggag caagcaacgt 180  
 gagcaagctt ctaaagagg tgcagcccca ccagaggagg gatgcagtga actcactggc 240  
 ctatgaagcc gaggcacggn taaa 264

<210> 2670  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556678H1

<400> 2670

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 gaaagtaact tgaaggactt actgcttcgc tgattatggt agacgaggaa gaaattcaag 180

aggaacggaa cagaaaagtt gagtacgaac agcatcgcaa catgtacaac gccaaacttcg 240  
agaaccagac ccggggccatg aacacctaca aggcccatc ga 282

<210> 2671  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556679H1  
  
<400> 2671

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ccggccatcc agcgccttca attctccctt ctggactaca aattctgggtg ctctatttg 120  
gaacaacaac tcctctttta ccgtggagct agagggtcaa ttctgctgga ggattatcat 180  
cttgtggaga agcttgcaaa ttttgatagg gaacgtatcc cagaacgtgt tgtccatgcc 240  
agggcgctag tgcaaagggt ttctttgang gtcacccatg ac 282

<210> 2672  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556680H1  
  
<400> 2672

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ggaacaacaa ctctctttta accgtggagc tagagggtcaa attctgctgg aggattatca 180  
tcttgtggag aagcttgcaa attttgatag ggaagtatcc cagaacgtgt tgtccatgcc 240  
aagggcgcta gtgcaaagggt ttcttgaggt caaccatgac attc 284

<210> 2673  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556681H1  
  
<400> 2673

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aatggcctct gcatcagcat ctctgctcaa gtcttcactt gttcttgaca agtctgagtg 120  
ggggaaggga caaaccttc gcaaccttct gcatcagttg tgagatgcaa cccaccacc 180  
ccatcaggcc tcaccatcag agctggttcc tatgctgatg agctcgtaa gaccgcgaaa 240  
acagtggctt caccaggag gggatatttg gccatggatg agt 283

<210> 2674  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556683H1

<400> 2674

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tagtttcata ctttttttct tcttcttgaa atggctctcc aggtctcttc tcttgcttct 120  
gcttctttct cggttcttaa gagggaaaga gtggtgtgtc tctcaaggac tccaccttgt 180  
tcggtctttc attttcagaa cctatcaaag ctaacttcag ctcttctgca ttgaggtgca 240  
agaggggaatt cgaacaaaag ctctgtgctg tgagggcc 278

<210> 2675  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556684H1

<400> 2675

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gcattcagcc actcctcaat tccatcatgg atcctaacca tttccaacac caatccaaac 180  
caatccantt cgantcctcc ccgaccaaga gagctcgccg tganctctc gttctcgaag 240  
acagccacct caaccccgcc tcggccccgg a 271

<210> 2676  
<211> 279

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700556685H1  
  
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277

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<223> Clone ID: 700556688H1

<400> 2679

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ggaacccgct gcagctaaat catttgctcc ottaagcccg atctcaaaga ttttgcctaa 180  
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<223> Clone ID: 700556689H1

<400> 2680

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ttctaataaa taccocatcc tctcatatct ctatgtatct gttttccctt tctttgcatt 180  
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<210> 2681  
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<212> nucleic acid  
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<223> Clone ID: 700556690H1

<400> 2681

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aagagacatt gtggtgagtt tctattagcg ggtcgtgaca ccatcgctgc cgggttaacg 180  
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ggccgggtga tgggcccggg ccaggagttt cct 273

<210> 2682  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556691H1  
<400> 2682

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ctttgattct gaattggatg caattgggtg cctcactctg ctttgetcca ttgctgccac 180  
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<210> 2683  
<211> 276  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556692H1  
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tgaggaagggt attgacgaat ttgcaatatt attcatgata atggaggcca agtatatatg 180  
gatggtgcca acatgaatgc tcagggtggga ctacaagcc cgggttggat aggagcagat 240  
gtttgccatc tcaatctcca caagacattt tgcac 276

<210> 2684  
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<212> nucleic acid  
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<223> Clone ID: 700556693H1

<400> 2684

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gatctgattt ggttcataaa gagtagtaca cgtttcattg ctcgaaatag agttgaaaaa 180  
tctggagttt ccatgtctga gaaaccatct tcatcggtga catctaccgt agctgcncga 240  
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<210> 2685

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556694H1

<400> 2685

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acctctcgcc tttaacaaat cctagctctc ccttcagcac agaggccaac ttogctgagg 180  
ctgaaatgca agatggagag cnanggctac attctgcngg gnaacactcg cacggngacg 240  
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<210> 2686

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556695H1

<400> 2686

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tgncctatgg tgcccgtact ccgaggtgaa atgcgcaagt tggaggcttg ctgtggaagc 180  
acacaacatc tttggctttg agaccattcc tgaagagtgc gttgaagcaa caaaggaata 240  
catccatggc gaacaatata gatcagactc caaaacagtt aacc 284



tcaatggcga aattcgtngt ggagaagaac agcttgacgg tgacgtcgcc ggacaacatc 180  
aagggcacgc acganagcnc gattgggaac ttcgggatac cccaatacgg aggcagcatg 240  
gctgagaacg tgttgtagcc aaaggncaac aaaaagggnt gcnaggagtt c 291

<210> 2690  
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<223> Clone ID: 700556703H1

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cctctccgaa tgaaaactgg ctatggtgag cgttcttcgg aggtaaaatg cgcnagtttn 180  
aggcttgctg tggaagcaca caacatccga gcctttaaaa ccattcctga agagtgcgnt 240  
gaaccaacaa aggactacat taatggcgaa caatttagat cagactct 288

<210> 2691  
<211> 263  
<212> nucleic acid  
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<223> Clone ID: 700556704H1

<400> 2691

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ctccgggcgc ggctggcgga ngagtcgccg tcgctgtagg acttcctcgc gttaaaatcg 180  
gagagcgcgt actcggtgga ggtcgggact aagaagaagc cgcttccgaa gccgaagtgg 240  
atgaaggagg ccgttcccgg cgg 263

<210> 2692  
<211> 276  
<212> nucleic acid  
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<223> Clone ID: 700556705H1

<400> 2692

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gaccgacata ttagaatgtc tgcttctatt cttaatTTTT agtttgccgc caattgaaag 180  
cgattaagct acaaaattat gtgcgaggtg actttatgtt gatgtgtagg catgcactat 240  
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<210> 2693

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556706H1

<400> 2693

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tcgatgcttg ctctctctgc ctcaaatccc taattgatcc tatgagctgc cagaaaggcc 180  
atctctnttg caaagagtgc attcntcagt gcctcttgc tcagaagaaa gacattcaaa 240  
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<210> 2694

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556707H1

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aacaacaact cctctttaac cgttggagct agagggtccaa ttctgctgga ggattatcat 180  
cttggtggaga ngcttgcnaa ttttgatagg gaacgtatcc cagnacgtgt ngccatgcc 240  
aggggcgcta gtgcaaaggg tttctntgag gtcacccatg acat 284

<210> 2695  
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 <213> Glycine max

<223> Clone ID: 700556708H1

<400> 2695

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 attcgtcaag gagaaccgag cctatgcctc cttgctttcc accttggaaca cccgtncaat 180  
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 gaaacgcatg caaaagaatg ctctcaagan agaaaaagaa gaaa 284

<210> 2696  
 <211> 254  
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<223> Clone ID: 700556710H1

<400> 2696

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 ccactcattc tccttctatt agtgtgggac agaatagtaa acgaaagaag agctannnnn 180  
 ctggatttgt caagagtata ggttttctcc attcctatat tagcaatggg tgcagaatca 240  
 tggtttcgta gtct 254

<210> 2697  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556711H1

<400> 2697

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 atggggttgg ttgcttagtg tttttttgga cgcacgaaag atgattcctn anngtggcct 180

cagttgctgt ttgagtgtg ctgcnmnta ccttctcggc agaagcagtg gcagggatgc 240  
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<210> 2698  
 <211> 282  
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 ctctcatcc ttctctctat caatttctcc ttcctttttg tcatacnant cttcaagttc 180  
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<210> 2699  
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 <223> Clone ID: 700556714H1  
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 tcaccacttt caattaattc tcttcacgta tcttcaagct caacttcaaa gatttcgcat 180  
 tctcattcca agtcctttcc cgtcgttgtg tgccaaatta actcaaacag agatcatcgt 240  
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<210> 2700  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556715H1  
 <400> 2700



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<223> Clone ID: 700556716H1

<400> 2701

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 gtgnagtcta cttttataca aatcatcnaa cactaattaa catgngcagg nctcaaagta 180  
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<210> 2702  
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<223> Clone ID: 700556717H1

<400> 2702

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 gcaggcccgg ttggggtttg gcaagaagaa agccgccgcc ccgaagaaag tttccagggg 180  
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<210> 2703  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556718H1

<400> 2703

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 ggatttttaa ttttgcacat agaatttcat acatgcaata agattatggt ccgaaattgg 180  
 ttgaagagat tttatgaaat ttattaattt tgcattggca ttctgaggta atccttttag 240  
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<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556719H1

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<210> 2705

<211> 276

<212> nucleic acid

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<223> Clone ID: 700556720H1

<400> 2705

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<210> 2706  
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 <223> Clone ID: 700556722H1  
  
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<210> 2710  
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<213> Glycine max  
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<210> 2714  
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 <223> Clone ID: 700556731H1  
  
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<210> 2716  
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gcttnttggg gtatatgaag ataacgacaa tgcanggnag gacgagattg ctgcactcgg 240  
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anatncannt tncccaantg gnctgttgaa tttttatnng ggtnttanat tcctngcng 240  
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nnacgcatgt ggtgagtcgt cantgannag cgtgtctana ntcngcgnag atgatttaca 240  
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<223> Clone ID: 700556736H1

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ctctccata ccttcctga cccaccaca ctctcatggc ccgaatccgc caccgtagaa 180  
cccgaccggy aaccaccac atcctctctc ctinnaccaca tagacgcact ctcttcaac 240  
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<223> Clone ID: 700556738H1

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ttctgggat ttaccgcag acccatgcaa ctctgccgcy gtttactgcy actccgacaa 180  
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<213> Glycine max



<223> Clone ID: 700556740H1

<400> 2722

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agaactagag ggtgcagaaa atgagagtgg aaaatgccca aaggaaattt tggtagtag 180  
tgacagtgat ggaagatagg aggaacctgt gaggtcgccg gtgatgagga cgagggaagg 240  
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<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556741H1

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ctcgatcacc ccgcagatcc ttaagccaga tcttatcgcg ccaggtgtca acatcctagc 180  
cgggtgttcc aaggcgggtg gaccaccggt gttaattngt tgataacagg cgcgtggatt 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556742H1

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agcgtgttcg gagctcaatg ggaaggtcac ttccgtggcc tatgttgcatt gctctggcta 180  
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 aaagtggtaa tgagcatgga ggcaggcatt ggagtgatgg gcaccaagtt gggatatgatg 180  
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<223> Clone ID: 700556747H1

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<223> Clone ID: 700556748H1

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 <213> Glycine max

<223> Clone ID: 700556750H1

<400> 2730



<212> nucleic acid  
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<223> Clone ID: 700556753H1

<400> 2733

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<223> Clone ID: 700556754H1

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<223> Clone ID: 700556756H1

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cgagctgcat tactctccct cggttcctcc gtgggaggcc gtaccctctt ctggaacgcc 180  
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276

<210> 2736

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<212> nucleic acid

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<223> Clone ID: 700556757H1

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caatgccatc caaaagggtc tttctacgtc tccgcacga gcaccaagaa aatcctaata 180

atgggaggca ccaggtnnnn natgtgtttt tgtctaggct ccttgtcaaa gagggtcacc 240

aggtgacttt attcacaaga ggtaaagcgc ctgtc 275

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556758H1

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tacagttttc agaatattaa agttcctcta ctccctgtgc atttttgtga ttgtgaggag 180

cattgtagtc cttttgtccc ngaaagagaa aaactatcta ttgatagggc agctgatagt 240

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<212> nucleic acid

<213> Glycine max

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<210> 2741  
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 <213> Glycine max

<223> Clone ID: 700556763H1

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556765H1

<400> 2742

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 ggttggttga ggaaatattg nccaagacc aatgatgtac gtggctctaa catatgacca 240  
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<210> 2743

<211> 281

<212> nucleic acid

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<223> Clone ID: 700556766H1

<400> 2743

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<210> 2744  
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 <223> Clone ID: 700556772H1

<400> 2749

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<210> 2750

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556773H1

<400> 2750

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 gcctgaggcc taccacatca gaaccctcac ttcagtcctt ggcagtgagg aggctgcaaa 240  
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<210> 2751

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556774H1

<400> 2751

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<223> Clone ID: 700556775H1

<400> 2752

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 aaaagggaaa tggagttggg gaattggaat ctgtttcgga tagtagctca ccttcaaggt 180  
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<223> Clone ID: 700556776H1

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 gattatataa atagtgactt tgatattggt gtttactgga aaacattgaa tgcgaatggn 240  
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<223> Clone ID: 700556778H1

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gatgtggttt tagttccaga gttgctgatg cccttcgaca agagggcttg aattttgggt 240  
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<210> 2755  
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<223> Clone ID: 700556779H1  
  
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<210> 2756  
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<212> nucleic acid  
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<223> Clone ID: 700556780H1  
  
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agaggaacag atagcagaca tgttaaaagt ttttgaccga aatgggtgacc aaattataac 180  
caaggaagag tttgtcactg gcttaacaga atacattaac caatcatagc atgctctgga 240  
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<210> 2757  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556781H1  
  
<400> 2757

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 ccaaaacctt ggcgaaccca tccatgacgc ttggtcagg aggatccagt gtcgttggtc 180  
 ctaggaactt cagattgctg gaggagcttg aacgtggtga aaaaggaatt ggagatggca 240  
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<210> 2758  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556782H1

<400> 2758

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 tcctctncag ctcccctggc ctccacatct cattctccan aatacncaat ntcntagatc 180  
 cgtcangttt ttctctacta cttctcttcg taantttaat ncacgcgcca cccatcncaa 240  
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<210> 2759  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556783H1

<400> 2759

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 tagtgaaaaa gttgttagct aaaagaagac caagtttttg gtgttgtaga aggaagagaa 180  
 gaattaacat gaaaattcag tgtgacgtgt gtgagagagc tccagcaaca gtgatttggt 240  
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<210> 2760  
 <211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556784H1

<400> 2760

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 atctgaatct gtaaacgagg gtcaccccgga caagctgtgc gaccagatct ctgatgcagt 180  
 gctcgatgcy tgccttgaac aggaccctga cagcaagggt gcctgtgaga catgcaccaa 240  
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<210> 2761

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556785H1

<400> 2761

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 atggcaaagt gcccacgcca ccttctacgg nngctccgat gcttccggca ccatnggggg 180  
 ngcgtgtggg tatggaaacc tgtacagcca nggttatggt gtgnacacgg cggcattgag 240  
 cacggcgctc ttcaacagcg ggcttagctg cgg 273

<210> 2762

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556786H1

<400> 2762

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 cgagagtaca ccatcaacct ccacaaacgc ttgcatggct gcacatttaa gaagaaggct 180  
 cctanagcaa ttaaggagat aaggnaagttt gctcnnaag cgatggggac gaatgatgtn 240

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274

<210> 2763  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556787H1

<400> 2763

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gccgccaccc caacggtggc tccgtcaacc accacctcct cctcggaggt ggaggttcc 180  
aggttggagc ctagagtgga ggagagagat gggttctggg ttttaaagga agagtacagg 240  
ggaggcatca gccctcagga gaaagtgaag ctt 273

<210> 2764  
<211> 272  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556788H1

<400> 2764

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aaccoggttc gacggttcag aggagactat ggggtgaagga ccggtcgaag gactggtggg 180  
agaagatcag ccggaaggac ttcccggagg aggagttccg gcggtgggtc cggatgagca 240  
gaagcacggt cgacatgatc tgcgacgagc tc 272

<210> 2765  
<211> 258  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556791H1

<400> 2765

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 ggacgaccac attgcgctgg cctgcgcggg gctgaaggcc gacgcacgcg tgctcataaa 180  
 cagggcacgt gtggagtgcc agagtcacag gctcaccgtg gaggatcccg tcacggttga 240  
 gtacataacg cggtacat 258

<210> 2766  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556792H1  
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 caagcacggg aagaagtact gcgacaaagg atgggaatgt aagggctggg caatttactg 180  
 ttgtaacctc accattaccg attatttcca gacctaccag ttcgagaatc tgttctccaa 240  
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<210> 2767  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556795H1  
 <400> 2767

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 cacaaaagtg attcatgatt gcaaacggga cagtgaggca ttatactttc agtttggcat 180  
 caagttgaac aacgtagtgg ataccagat tgcttattca cttatagagg agcaagaagg 240  
 acgaaagaga ttgcgagatg actacatttc att 273

<210> 2768  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max



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tc 302

<210> 2771

<211> 306

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556803H1

<400> 2771

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tttctaggaa tttggcttgc aaattcatat acccttttct ttttccaata aggtttcaaa 180

ggatttggtc cccaagcagt tggagaacat gatgtctctg gtctctctc gtactggcag 240

gcattgcagc gtatgacaaa ggctgtcgcc aagttgtggg atgcattctt acagatacna 300

gancat 306

<210> 2772

<211> 305

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556807H1

<400> 2772

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cctggcaatg cttttgttga aggtgatgct tcaagtgccca ttatttacta gctgggtgcag 180

caattactgg tgggactatc actgttaatg gctgtggcac aagcagttta cagggagatg 240

taaaatttgc tgaagttctt gaaaagatgg gagctaaggt tacatggtca gagaacagtg 300

tcact 305

<210> 2773

<211> 288

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<213> Glycine max

<223> Clone ID: 700556808H1

<400> 2773

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 tgattgcggg ttatgtttga tgatgtgttc agtgatcatc aatatgagaa tgttgctgt 180  
 ttgctcagcc accccacgtt attccacatc ttcccagatt nccttgtttg ggggattgca 240  
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<210> 2774

<211> 308

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556809H1

<400> 2774

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 nnnnnnnnnn nnnncaacct taatcatgga gaatattgga gagagtacaa gcattactgg 180  
 gagaccaaca tgttcctcca aaccaagaa cttgacagtt gggggttgga tgaggcctta 240  
 tctgggtact acgattcgag ttccccggac ggcgctgctt cgtctgcggc atctaagaac 300  
 attgtttc 308

<210> 2775

<211> 306

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556810H1

<400> 2775

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 aaaagagtgc caatggcatc ttcttcagac tcatgggtga ggaatataat gaagcactga 180  
 aacttgctga tgatatcagt ggcattgatt ctgagcagag ttcatttcct gcattctggac 240

cagaaaccca gcatcattca tctgctataa ggagaaagat tacaatattg gggaccaggc 300  
 ttgata 306

<210> 2776  
 <211> 303  
 <212> nucleic acid  
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 <223> Clone ID: 700556811H1  
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 aaccatggct gaagaagatt cagcaagcaa gacccctcat tccgtgggta acaaggctgc 180  
 ctctctatct tccccgtga cagcaccag cgtcggcggt cggtttcggc tggacaattt 240  
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 caa 303

<210> 2777  
 <211> 302  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556814H1  
 <400> 2777

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 ggttcccaaa cgttaganag aaggagaagg gattgaanct ccattccaag gtcttacnag 180  
 tntatgcac tttctccatt cacaggaaat cgtttgtaaa tcccaatggg gacgatgtgc 240  
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 gg 302

<210> 2778  
 <211> 304  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556815H1

<400> 2778

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 gagaaaattt tagtttccat tttcatttct ccctcagatc ccggaaaata tattcacaaac 180  
 attaatttcg cacttcgccc tctgcenact accaagctcc ggcttcctct gccaatcaaa 240  
 tccgtcgtcg ttttcgcaa ttccgaatgc gtcgatttcg gggtggagaa tgagttctcc 300  
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<210> 2779

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556816H1

<400> 2779

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 agcaacctca acatcactct tcttctccaa tctccatctc tcaacctca acccttctct 180  
 tctcactct cttcttccg aaatgtccat tccacctct ctttcccttc ctcttctaaa 240  
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<210> 2780

<211> 311

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556817H1

<400> 2780

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 gggtctggag ctggagcttc agtcccagt tcagccttct ttggaccagc ttgaagaagg 180

ttattgctc aagggtcccc aacagcaagg tttccggtgg aagcttcaag attgttgctg 240  
tagaagagaa gaaagagatt gaagagacnc agcagaccga caaggacaga tggaanggtc 300  
ttgcctatgg t 311

<210> 2781  
<211> 207  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556818H1  
  
<400> 2781

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acggaanaaa gttgctcttg aaccaactga catggtgggg tttactttga atcattagat 180  
gatgacaaat cggctctctca tagagtc 207

<210> 2782  
<211> 227  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556819H1  
  
<400> 2782

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tcgtctccgt ccctgcaagt gttcctccac cgccccctg tccaccacca cctacgagtt 180  
ttctgatggg tcttcggagg tggagttaag attaaacata ggaggtt 227

<210> 2783  
<211> 303  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556820H1  
  
<400> 2783

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 tgttccggtc ggagccgatg caactgggtc agctcatcnt ccnnnnctcg tccgctcacc 240  
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 gag 303

<210> 2784  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556821H1  
 <400> 2784

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 gctgatgttg ttgaacctga taatgaccct cctcaaaaga tgggagatcc ttctgctgaa 300  
 ataac 305

<210> 2785  
 <211> 303  
 <212> nucleic acid  
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 <400> 2785

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 tggttgagtt ctcaatttct tgtggcagtt ttgttgaacc catcaatcct ttctttctat 240  
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<210> 2786  
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 <212> nucleic acid  
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 <400> 2786  
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 atgc 304

<210> 2787  
 <211> 305  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556825H1  
 <400> 2787  
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 nnacgcaaag gcgttgnggt tcntcnaaga aatgactcgc aacgccgacg ccgtccagga 240  
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<210> 2788  
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 <212> nucleic acid  
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 <223> Clone ID: 700556826H1  
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 aacagtccat caattgctgc tgtagtggcc actgttattg gcttgcgtgca aatcgctatg 180  
 cagcacgtgt ttgtgctcaa ggtcatcggg ttgagaaaat tttgaatttt gggagaattt 240  
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<210> 2789  
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 <212> nucleic acid  
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 <223> Clone ID: 700556827H1  
 <400> 2789

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 gtgtacatag gggtatatat tgatgcactg tatttgtatt caaattccaa ttccaaatgg 180  
 cgaacatatt tgattgctgt tagtttccca gggtatgtag actatgtgac aatgcagcat 240  
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<210> 2790  
 <211> 301  
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 <223> Clone ID: 700556828H1  
 <400> 2790

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 cgccaggggtc tccgccatgg ccaaggagtt gcacttcaac aaagacggca ccgcaattag 240  
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<210> 2791  
 <211> 299  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556829H1

<400> 2791

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 tcagtttgat cttatgtcaa tgaaggattt ttagaaaaac ccagattcac aggaaaaacc 180  
 cttaaagcgg agaataaaag gcaacgactt ttcattctta cgcaagtgat tatggcggtt 240  
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<210> 2792  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556830H1

<400> 2792

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 ggaagtgaga caacagcatc tcctcttggc cagctactaa atggactctc aagactttga 180  
 tcttgatgat ctttgttcta tgggcagctt tcatcttttt tctccctgca aagcctgtga 240  
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<210> 2793  
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<223> Clone ID: 700556831H1

<400> 2793

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gacagaaaag tagcaaaaag aatatttcaa gagataaatg ttaagagaag ctcaagtagt 180  
 ggctcttgt tcctacgaaa ataacacaaa ttggggcaca gaggtgggat tctcatatgg 240  
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<210> 2794  
 <211> 299  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556832H1  
 <400> 2794

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 cctgcaacag aatggagata tatgttggtg ctcttccaag caccgcgttg tcaaagaagt 180  
 cactgaatgg atgtccaaaa caagtgggat cccggttgca gacctttgcc agcatcagtt 240  
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 tgaaagctat tccgtctctg ctgcaattct ccatttctct tcccagcttt ggggtggccta 180  
 ctatttggct atgatattgg tgccacatct tcggcaacca tttccattga gtcaccaaca 240  
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 <212> nucleic acid  
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 actacgaagg ggtaaagaag tgcttaacgt agccaaacca ttattccaac ccttaagcgt 180  
 cctggatttt tagctcaacc tgtctccaga gtgcaaataa gcaccatgac tgtaaggaa 240  
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 c 301

<210> 2797  
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 gcatatactc aattgggttg ggtagcatga ttacctcaac aactacttca tgcctcaatt 180  
 ctattccagc aaccaggcag tactcaacng atgagtatgc tgatgttctt nttcaagcat 240  
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<210> 2798  
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 <213> Glycine max  
 <223> Clone ID: 700556837H1

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 taataaatgg agtgctgcac ccaaaacggg cttcatgaca tcacaatttc taaagatttc 180  
 tatcgaatat acagtgttct ccaaattgga tacttggaag aatctgcca agtgccatca 240  
 aatagtcatg aaaggctggg agattcaatt gcttgggggg gctgcactat aatttatttg 300

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302

<210> 2799  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556838H1

<400> 2799

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cattancatc tgtntctang cttcctcagc tttnnccatac tacntctgnt ttgagtaatg 120  
gaatganagg ngcncctagc nccattnnntn ctangancca gttnttgac 169

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<223> Clone ID: 700556839H1

<400> 2800

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tcagtgtagt ggaagaatca ctcccttatac natttcccac cacaccatan gngcaaccaa 180  
cgctctctct ttagcctcca ttctacgctc tcccaaccgc cagtctctga cccgaagagc 240  
gaaccataat ggaagagtaa attaccggaa accgaataac cgtttctccg tgaaagcctc 300  
cgcc 304

<210> 2801  
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<212> nucleic acid  
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<223> Clone ID: 700556840H1

<400> 2801

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agaggagggg gaagagaaac aaaacaaaaa a

151

<210> 2802  
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<212> nucleic acid  
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<223> Clone ID: 700556841H1

<400> 2802

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tttacgacaa ggagcgaccc ggagttacat ggccgaacag ttgaatgctc cacttgaggt 180  
cgtggatcct gagattgctg atattattga gcttgagaaa gctaggcaat ggaaggggct 240  
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<210> 2803  
<211> 301  
<212> nucleic acid  
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<223> Clone ID: 700556842H1

<400> 2803

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ccatccacac ccccccaac atcggttaat tacagacggc caagagaaga aagggaatac 180  
cacaccgtgc cccaatgggt ggactaatca tagaatatta gatagttggt attttttaggt 240  
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c 301

<210> 2804  
<211> 299  
<212> nucleic acid  
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<223> Clone ID: 700556843H1

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 ggagcgaccc ggagttacat ggccgaagca gttgatgctc cacttgaggt cgtggatcct 180  
 gagattgctg atatTTTTga gcttgagaaa gctaggcaat ggaaggggct agaattgata 240  
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<210> 2805  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556844H1

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 gcgtcaatga ttgagtgggg gggagagggt gtgactctga gtccgacggc caacacacct 180  
 cgactcaaat ggggagtggc catttccctg aggaggggtt tggcaaggct agttacttca 240  
 agaacattca gattgttgat ggtgacaaca agcttagagc tccaaaagac cttggc 296

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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556845H1

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 aaagcattgc aaaggganaa ggagattggt attaaattca aggactagtg atcgtggtag 180  
 aaagcaaaag gagcgaaact ctggattttc cagtgaattc aacttatcca atcctagtcg 240  
 aaaagaagga aaagaggact tccagagagg ctccttttgg ggaagagcta gtgagag 297



<210> 2807  
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<223> Clone ID: 700556846H1

<400> 2807

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 gaaaagacca aaattgagca caaaatctct gcgttgaagc tcaactcaga gagattaatc 180  
 tccaaaacga cgccgcacct cccaatgctt cttcttcttc atcgtacccc accaacggat 240  
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<210> 2808  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556847H1

<400> 2808

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 actgcccagag actcttaaga attacaacaa gctgtgtctc ttggcttcaa gattatattc 180  
 ttgtcaggaa gaacactgga caaacaggcc gtaacagaag caaacttaaa gaaggctggc 240  
 taccacacat gggaaaaatt aattctcaag gatccacaag atccttccac tccaaat 297

<210> 2809  
 <211> 251  
 <212> nucleic acid  
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<223> Clone ID: 700556849H1

<400> 2809

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 aatttcattc agntcatggg ctctgtctc ctactatctt ggtgtagag aacatgtctt 180

cactggcagt gtctcatctt tagcatcatt atgtccaatc aagaaactag ttttgtgact 240  
 ttggggcagc g 251

<210> 2810  
 <211> 298  
 <212> nucleic acid  
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 <223> Clone ID: 700556850H1  
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 gcttgctatc gttctttaca ctgtcttcac cgatggcttc cgtttcgcaa agaacttctc 180  
 acaccgtgga tggcagcnac tttgattgat tttatatcaa cgttgtagct ttggcgggtct 240  
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<210> 2811  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max  
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 aactgaagga cctgaaggcg ganttgctt gcttctgttg ctaaggtcac cgggtggtgcc 180  
 cctaacaagc tttccaagat aaaggtggtg aggttgaaca ttgcccaggt tttgacggtg 240  
 attctcagaa gcagaangct cgttgangga tgctacaaga ataagaatnt tgccc 295

<210> 2812  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556852H1  
 <400> 2812

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 tattaggccc ttcttacctt ttcaaaaatg gttcaagaga tgtgtctttt caaaaaagct 180  
 ttttctgaaa ttctttacta gtaatcgata acaggtttct ggtaatcgat tacacagtta 240  
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<210> 2813  
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 <213> Glycine max  
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 tattaggccc ttcttacctt ttcaaaaatg gttcaagaga tgtgtctttt caaaaaagct 180  
 ttttctgaaa ttctttacta gtaatcgata acaggtttct ggtaatcgat tacacagtta 240  
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<210> 2814  
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 atagatgatt ttttttttcc taaaggcat aactgaagga aaaaaaaaag gttaaaggttt 180  
 ggnctgaaan agaaggcgtg aggnancttt tgaatatggn gggcaaggag gtgaggatgg 240  
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<210> 2815  
 <211> 298



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<210> 2818  
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<212> nucleic acid  
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<223> Clone ID: 700556858H1

<400> 2818

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gggategtcn gcaccgggtt ngacttcttc tgagtgcact cgatacngtt acttttttag 180  
cctcctccat ctccatccan cttnttagtg cnaccaaggc tganggtggg aaagganaag 240  
ttggaaaggc taaaaatttg anagganaga taacattacc aaccatagga gctaagg 297

<210> 2819  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556859H1

<400> 2819

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ctatgatcca accccatcac caccacaga tggggaagtt acaatccaac cccatcacca 180  
ncctcaggca gcaactgtgg cacaccacca catgaccct ctactccaac accctcagtc 240  
ccaacaacac catcaacccc aacaacacca tcaaccccat caacaccatn acaccctc 298

<210> 2820  
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<212> nucleic acid  
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<223> Clone ID: 700556860H1

<400> 2820

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 gnnaaacctc aacctctctc tgggtgcaga tcaacttcta ggccatgttc tctacccttg 180  
 aaaagaagaa catgctttac taccaaagcc attctctcat ccaccagaga agatgtcttg 240  
 aagcatttca acgaacgacg agctctcaag attatctcag gcttgcagaa tttca 295

<210> 2821  
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 <212> nucleic acid  
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<223> Clone ID: 700556861H1

<400> 2821

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 agcgtggtca actgatgctg tgcaaagggg natttcggaa agaaaaataa aaatttaaaa 180  
 cggtgacaga tgtcaatttt taattgagtc gcaggttttt ccagtctctt gcataatcgga 240  
 ggatatataa caaagctctt aataaaaaca caaacctaa gagccaaaca cgacg 295

<210> 2822  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556862H1

<400> 2822

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 tcacgcagcc tctctattcc cacaccctat tgctaccctt caaaacctcc cttccgttcc 180  
 cgcgcttcaa cttccccaaa atcgagagat tacgaggggt gcagccctgt gtgagtgtga 240  
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<210> 2823  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556863H1

<400> 2823

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cttgacaagg acacacaaaa gactttacaa catgggtcat ataggtgggt accatgccac 180  
tgctcacatt cttccacaag taaaactgct gcagaaccag ttacagtttc tttaagtatt 240  
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<210> 2824

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556864H1

<400> 2824

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cttacctcca ctaggaaggg ctgttccttc attcaggcat ctgatagaag aggaggatcc 180  
tccatgcctg cttataggaa ggatgagtac aattggcgat atgacagtga tgaacttcct 240  
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<210> 2825

<211> 238

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556865H1

<400> 2825

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tctggcaata aattaatctg tttgggaact tggagtgaaa cttgtgggtga ttcaatgtaa 180  
agaataaagt ccatttggat aaaaaaannn ttagaggann agnggggggcc nccccccc 238

<210> 2826  
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 <212> nucleic acid  
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<223> Clone ID: 700556866H1

<400> 2826

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 aggacttaaa gtccatggat aagctcattg aacctttgaa tcatggatgt caaaacatgg 180  
 caagatttac caaagcattg aggagaagct tcttaggttc gagattttca aggataacct 240  
 aaagcacatt gatgagagaa acaaggtggt cagcaactac tggcttggct tggaatgagt 300

<210> 2827  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556868H1

<400> 2827

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 cgccataacc tccatcggtg aaggtggtgt tatgacacag ccaccggcat cttaggccaa 180  
 ggcgtcactt agttggtgga gtaattgata ctgccacttc cttcttaggc cgtaatatct 240  
 ccatgcaatt gatcagtgt actcagactg atggcagtgg aatgggaagt tgga 294

<210> 2828  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556869H1

<400> 2828

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 agtgaaaagg accaacaaca acaattgcng tccgatacna caanaggccc tcttctcagt 180



ggcaaaatct ccgtenatct catctggtac ggtaacttca agccttcnca gcgagncatc 240  
atctccgntt tcatcacctc cctttcatct cncanattca cagcncaacc atccgtcgg 299

<210> 2829  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556870H1  
  
<400> 2829

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cgctcttttg ttccctttgc gcgcaattca caggggaacc ttctggaatc acatgtttgc 180  
aaagaatggg aataggcttc ataatacaata tcatagccac tgtgattgct ggcctaattg 240  
aatgaaaag gaaatctggt gctgctaagt accacttatt ggatgatcc 289

<210> 2830  
<211> 298  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556871H1  
  
<400> 2830

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canngcaga gtccgcgccc tctcttcga caaagccacc gcttccctct ccccaaacc 240  
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<210> 2831  
<211> 262  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556872H1  
  
<400> 2831

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cgatactacg tggggccacaa gggcaagttc gggcacgagt ttctggagtt cgagttcaga 180  
cccgatggca agctccgcta cgccaacaac tccaactaca aaaacgacac catcatccgc 240  
naggaggttt acctcaaccc tg 262

<210> 2832  
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<212> nucleic acid  
<213> Glycine max  
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<400> 2832

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acaaggtggg cagcaactac tggcttggtt tgatgagttt gctgatttga gccaccaaga 180  
gttcaagaac aaatatctcg ggcttaaggt agactactct agaaggagag agtcccctga 240  
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<210> 2833  
<211> 294  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700556874H1  
<400> 2833

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cctcaatggc atcttctctg tgacaatgga tttgaccctc tggggctagc tgag 294

<210> 2834  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556876H1

<400> 2834

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gtaaattata gattctgtga cgctgctcgg actctctatc atccaactcc gccatcttca 180  
agtggaaaag aacggctaata tataatcgta accgttctgg aatgggaacc ttcaccacgc 240  
gcgcgttggc gcagcggctc cagaacgccg acgaactcat cgattccgtc gaga 294

<210> 2835  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556877H1

<400> 2835

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caagtccatg gctggcttcc ccaccaggaa accaacaatg acattacctc cattgctagc 180  
aacgggtggaa gagtgcaatg catgcagggtg tggccaccag ttggcaagaa gaagtttgag 240  
actctttcct acctgccaga ccttgatgat gcacaattgg caaaggaagt aga 293

<210> 2836  
<211> 291  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556878H1

<400> 2836

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tctcattgta ttcaccattt ttgggttaagt gtcattataa gtattacagc tgttactcgt 180  
tccttggtgc ttttcttccc ttggtgcttt tccttcctt gttgctttcc aattattcag 240

tgagtggaaa ataactgctc gcacaattct ggtactgggt tcttgattct t 291

<210> 2837  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556879H1

<400> 2837

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cgagaatttt aaggtagaga tctaattgtg aagtacaccg agactgagat tcagtccgtg 180  
tacaactacg aaaccaccga acttggtcac gagaacagga atggcaccta tcagtggatt 240  
gtcaaaccga aatccgtcaa ctaccaattt anaaccaaca ccca 284

<210> 2838  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556880H1

<400> 2838

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tagagtccgc atttttcttc tacgatgaga caagaacctt gtgcgcgtga aggtgaagga 180  
ttctcttgac acaagncnag ttggggatg tttaccaaga tgttgacatt ccatggctca 240  
agaataagcc taaacctaaa agatctaaag ctaagaagtt ggcattggca caag 294

<210> 2839  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556881H1

<400> 2839

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 tgccttgctcc taagctcctc cttgttcgag gtgtcnatgg ccggttctgc tttctgctcc 180  
 tccaagtgcg cgaagaggtg ttctagggct gggatgaaag acaggtgcac gagggttctg 240  
 cgggattgct gcagcaagtg 260

<210> 2840  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556883H1  
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 atgctgtagc tgtttgcat tctgattgna ttggagggca agctgttttc tatcacttgt 180  
 ggtcagtcac tgagtgaagt tgcccttggg aatctcagac cgttactctt tgtgaagaat 240  
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<210> 2841  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556884H1  
 <400> 2841

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 acggtggaaa tgatgcctct ggaacaatgg gtggggcatg tgggtacggg aacctataca 180  
 gccaaaggtg tggcgtgaac accgcgccct tgagcacggc gctgttcaac aacgggttga 240  
 gc 242

<210> 2842  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556885H1

<400> 2842

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 acgttattcg gtgttggtgt tttcggcggg agattgggtg ggagaaagag ataattcttc 180  
 ttcactcaaa tttaaatata atcattgcaa tttattgatt tcgattctgc tcccccat 240  
 aattgcattg cttaatatac agcaacacgg gtgatggcag cgacgacggc gatg 294

<210> 2843

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556887H1

<400> 2843

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 accaccaggt tgtacatcag ttattcttgc cctatgcaca acgtgtgtgg atcgctagga 180  
 actacaagg gctacaagat aagatcaatt tggctcctat taaccttcaa gacaggccag 240  
 cttggtataa ggagaaagtc taccctgaaa ataaggtgcc atccttggag cacaat 296

<210> 2844

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556888H1

<400> 2844

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 ggtcagcatg aggaagaccg taccaagcag gcctcctccg gaagcccatg gtacggccca 180  
 gaccgctca agtacttggg cccattctct ggcgagcccc cgtcctacct cactggcgag 240  
 ttcccaggtg actacggctg ggacactgct gggctttcgg ccgaccc 287

<210> 2845  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556889H1  
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 tggatgatgg tgtaaaaata gttacctcgc ttctgaagcc ggattcatga ggtgatggtg 180  
 ttcctctttt agnntgttgt agcgttcaat cacagatttc atgctgtcat aatgtaggaa 240  
 gtcnttacna gagcacgtta gcatatTTTT ttgtaagtaa ataaaagatg t 291

<210> 2846  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max  
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 tcggtnagca tgatgggggg gantaaatca anacccttta acggnnggaa atttgatgta 180  
 cgtccttaac attancggtt tggagagaat ccntgtgat tagttgctaa aggatncacg 240  
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<210> 2847  
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 <212> nucleic acid  
 <213> Glycine max  
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agataacaag agcagccaaa ctggagagct tcattgaaaa atggacgccc tgatgatgat 180  
 aaaagtgaca agattctcga agtggatact tggaggccac acttcaagtc tcaccacagt 240  
 agcagctcct tccaagcagc acattattat ttgagttctg attacaataa 290

<210> 2848  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556893H1  
 <400> 2848

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 ctccaccctc agaaacttta aggacgatca aagataggcc ttctgagagg gttgcctcat 180  
 gctaattgat agagactggg gttatttgaa gcagacatat ataaaccaga cgagtacgag 240  
 ccagcaattc aaggctgtga gattgtcttt cacgttgcta ctccctatg 289

<210> 2849  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556894H1  
 <400> 2849

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 gcactctact cgttcatcaa agccagaatg gaggaagaaa agcgacaagc aaaagcagca 120  
 taagaggaaa gtcgtcaacc tggagntgtc ttgcactgta aatcaccaca aatttccttc 180  
 aaaataattg agtgactggg tcagtgttgt actatccttg tgatagcgcc cttttatttt 240  
 tccttctatt tttgtcaa attttctttt tccttttttt ccttttttc 288

<210> 2850  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556895H1



<400> 2850  
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 gaccaagatc actccaatct ccatttgctt ctccagaaaa gcctcctttc ttgttaaggc 180  
 agctgctacc cccctgtca agcaaggatc agacagacct ttgtggtttg catcaaagca 240  
 aagtctttct tacttggtg gcagccttcc gggtgactat ggatttgac 289

<210> 2851  
 <211> 201  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556896H1

<400> 2851  
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<210> 2852  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556901H1

<400> 2852  
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 taaggttctt tgacaaggct attgggatta atgttcctcg atcacgattc cttcctgtga 180  
 aggcaacttc agatttgctt cttgtccagt ctgacctcta cactttggaa gacggatttg 240  
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<210> 2853  
 <211> 289

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556902H1

<400> 2853

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atgaaaactg gctatggtga gcgttcttcg gaggtaaaat gcgcaagttt taggcttgct 180  
gtggaagcac acaacatccg agcctttaaa accattcctg aagagtgcgt tgaaccaaca 240  
aaggactaca ttaatggcga acaatttaga tcagactcta aaacagtta 289

<210> 2854  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556903H1

<400> 2854

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gcactaanat gcgccgnacc gtcaagantg ctctcagag catttggtat ggccctgacc 180  
gtcccaagta cttgggtcca ttctcggagc agattccatc atacctgacc ggagaattcc 240  
ctggtgacta cggatgggac atgctggat 269

<210> 2855  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556904H1

<400> 2855

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aatcaacact aaaggtttca aagacaaaga atacttcact cgtgaccaga tgtgaaattg 180  
gtgacagtct ggaagaattc ctcacaaaag caacaccaga taaggggttg atcaggttgt 240

tggtgtccag ggagaagcat taagaacaat ttccttcaaa gtgaagacgg 290

<210> 2856  
<211> 289  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556906H1

<400> 2856

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catgaaggcc tctatccgcc ccgacatcgt caatttcgta cactcgaaca tctccaagaa 180  
cagccgccag ccatacgccg tcagtcgtcg cgctggtcac cagacctccg ccgaatcctg 240  
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<210> 2857  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556908H1

<400> 2857

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agcttgcttg caaggcacag aagcaagagg atattgatgt cagcccaatc tctcgccggt 180  
tagctctaac cgtgctcatt ggtgctgctg ctgttggtc caaagtcaa cctgctgatg 240  
cagcttatgg ggaagctgcc atgtgtttgg aaagccaaag acagacaca 289

<210> 2858  
<211> 289  
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<213> Glycine max

<223> Clone ID: 700556909H1

<400> 2858

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 caatgatcgc catagccaga agtttatatg gcaacactaa gcgacaacaa gagtcattcg 180  
 atgagcacga agaaactgag gatgacgaag aatctgagga ggcagacaat gggaaatgga 240  
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<210> 2859  
 <211> 288  
 <212> nucleic acid  
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 <223> Clone ID: 700556910H1  
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 ctgtttctccc caatgcttct cctcgctccct ctccctcacc cctaactcca aaccatttc 180  
 catttccgcc gttttctca aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgtc 240  
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<210> 2860  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
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 cttaaaaagc acttcagggg aaagccatat tacgttgatc ttcttgattt gtttaatgag 180  
 gttgtacttg tacaaatgtt gaagtttaat ttatgtggat ttcattctgt taaaatgcta 240  
 aagttgacta tcatgctttt ctttttaggtt gagttcctga ctgcttc 287

<210> 2861  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556912H1

<400> 2861

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ccaccgacca aatcaaccga agttcttact tcttcacact cacactttct atttcctttc 180  
tattgattat tcgtaaccat cttctgaaat ctctgtacat ttcaattctt ttgtgtattg 240  
aagagaatca tattgagaag cagcg 265

<210> 2862

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556913H1

<400> 2862

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gagagctcaa gtctgctctc gactctttct gggatggcaa gagcagcgcc gaggatttgc 180  
agaaggtggc tgctgatctc aggtcatcca tctggaagca gatggctggg gctgggatca 240  
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<210> 2863

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556914H1

<400> 2863

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caacttattg cagtctctcc tgggtgctgt atcaatctta gccatgtcag ttatcaaaaag 180  
gataccaacc tcagttctat ggggatattt tgcttacatg gcaattgata gtctcccagg 240  
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<210> 2864  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556916H1  
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 gaacttgttg caaattaaaa ggcatacaagt taacannaga agttggaata ctccatagcat 180  
 acctttcata gttacgatca taatctggat cactgcatc cttccctat ctctcaagat 240  
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<210> 2865  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556918H1  
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 caataagagc aagagggagg ttgaagatga tgttgagaat agtgatactc tnnnnnnnnn 180  
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<210> 2866  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556919H1  
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atgccaccgt ccaagatatc aaggatgaaa atgagacgaa acatttggag gaaatggaag 180  
gagcaaagag tcatctccat ttttttgaaa tggatcttct tgacatcgac tccattgccg 240  
ctgccataaa gggttgttcc ggcgtaatcc accttgcattg tcctaac 287

<210> 2867  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556920H1

<400> 2867

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ccactcatga ttggctactt ctcattatct gtcccatctg gactaacaat ttactggttt 180  
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<210> 2868  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556921H1

<400> 2868

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acagctccaa ttttgaagtc agagaagtcc ttatcaaggc tganattcan acagagagac 180  
agagaatact tcttttagac acatcanaat cgccagttga nacgatacgt gcgggtgggc 240  
gntagattta ttgtagnnca gatgtganag agctgg 276

<210> 2869  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556922H1

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 atgagcattg gagtggatggg gccttagagg ctgatttacg tcttgctgac ttacgtgcta 180  
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<210> 2870  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556923H1

<400> 2870  
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 gataaaggca atggaaccaa agtagttcca attgaggccc taattaagaa agctgttaga 180  
 aaaagatctt cgtacatcaa ggctaataca gagaaaatca ctatggctgg tcttcgtcga 240  
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<210> 2871  
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 <213> Glycine max  
 <223> Clone ID: 700556924H1

<400> 2871  
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 catctgaatc tgtaaacgag ggtcaccctg acaagctgtg cgaccagatc tctgatgcag 180  
 tgctcgatgc gtgccttgaa caggaccctg acagcaaggt tgccctgtgag acatgcacca 240  
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 <212> nucleic acid  
 <213> Glycine max  
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 actgaagatt gcagcactga agggccctgg gtttggagag cgcaagagcc agtaccttga 180  
 tgatattgcc atcttgactg gaggtactgt aatcagagaa gaggttggcc ttactttgga 240  
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<210> 2873  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
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 ctagcaatct tggtcatact aatatttgcc gtaaccctt tatggtacct tttgttgagt 180  
 tactcttcac acttgaacat caataagaat attccatcat catcttcac atagatcaa 240  
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<210> 2874  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556927H1  
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 ggtgcaggcc cggttcgggt ttggcaagaa gaaagccgcc gcccgaaga aagtttccag 180

ggggtcgggc tctagctccg ataggcccct gtggtatccg ggcgccaagg cgccgagtac 240  
ctggatggga gccttgctcg agattacgga ttcgacccat ttggg 285

<210> 2875  
<211> 277  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556928H1  
  
<400> 2875

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taanatacac atcatttntc acccaacaac atcattcaca tatctataca caagatcgag 180  
ngngagagag agaagcaaaa aaaacaacaa ccttaatttg aattttccta taccctatna 240  
tatttttctc tccgaccagg ccttttttga ggaggaa 277

<210> 2876  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556929H1  
  
<400> 2876

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caaaatgggt acttagattt ggatactgtt ttgatagaag cgttttatga tccggtgtgc 180  
ccatacagca gggattcatg gctccactc aaacaagctc ttcactcata ttcttctcgg 240  
gtttcgttcc tccttcatct cctcccttac cttaccagac aa 282

<210> 2877  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556930H1  
  
<400> 2877

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 gcggaaaagg tcagttatga caatgacatg gatggtagca atggaaggag gaacttgatg 180  
 ttcgccgcgg cgcgcggctg ctgtttgctc tgttgctggg atggcagtgg cagatgagcc 240  
 aaaaccagga accccagcag ccaagaaaa gtatgctccg attt 284

<210> 2878  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556931H1

<400> 2878

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 cttgtaatag gaattggaag cttgtgaagt tctgtaatgg ggaagtcag ggacgtaagc 180  
 ttttgttaaa aaatggtggt ggcagcacta aggattttta gcgccaacaa caacatatat 240  
 gcatgtctct caccgctgat gtgtccactg aatctaagtt gagagacct 289

<210> 2879  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556932H1

<400> 2879

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 tcagacgctc tcacatagca ctaccaactt caaccacat ttcattgctc gctctcttcg 180  
 cccctcccaa acgangccaa agcngctgtc agcatcgcca aggaccagat tgtctcttct 240  
 ctacccaag ttcaggaaat ggggttcggg gtgctggaca ggcacagcgt gttg 294

<210> 2880  
 <211> 290

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556933H1

<400> 2880

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ggcctcaagg actccgagtc catggaccag ggcgacttct cccgcctcgc cgactccatg 180  
gccgagttcg tcgagtccaa gactaacctc tccgtgggcc ccatccaccg cccccccctc 240  
ttctcccgca accagctcgt cctcttaacc gtcttcatcc tcctctggat 290

<210> 2881  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556934H1

<400> 2881

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ttgttgctgc cacctcctcc tcccttcttc aactgctgt tgatcttggt aacgagacca 180  
agttggatga cgagatcaag tcatggctag catttgctgc acaaaaaatt gttgaagtta 240  
acgcattggc taaggcattg tctggcaaca aggagtggcc ttct 284

<210> 2882  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556935H1

<400> 2882

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gaaacaggct gaaggaaaga aaaggatgaa gtctattggt aaagttgatg ttccccaaga 180  
agctttcatg gcagttttga aacttgaaaa ggaggttaata tgatcgtggt tacgtgtaag 240

ttgcaacatg atatgaattg taaatatatt aagaaaatat tagaacc

287

<210> 2883  
<211> 268  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556936H1  
  
<400> 2883

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nnnnnnnnnn accgcccga ccacctccca cggcggcgcg gcggaagtgg cgccggcgaa 180  
gttgagcttc aaatcaactc gccagatcg gaggaagcgt cggagggagt tccggtgggg 240  
aagcacagcc accatcacgt gatcagag 268

<210> 2884  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556937H1  
  
<400> 2884

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aatggagttg gatcaggtgg aacttacact tcctagagat tctacagctg aagctgctaa 180  
ggaaaactta gacaaccttg taaggaatth gttttcctca aggttagggc agggagccaa 240  
tctgccccac tttttgctga taataaacca gatgcaagtg aaaaa 285

<210> 2885  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700556938H1  
  
<400> 2885

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aacgttccca aatgttggca tgaatttagc gatgcaaaaa attgaagagg aaattccttt 120  
 cccccctgga actgagttaa cagaaatatt ggacattgag ctcccacctg aagatattgg 180  
 gaacgcattg cagcttttag agttttgcag agtgtttggga aaggctcttg atctcaagaa 240  
 gggagaagcg atgccattta cgagattagt acgtaaaca aatt 284

<210> 2886  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556939H1  
 <400> 2886

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 aagttatttg ttttttgggt acaaacttat cagattaatt tgaaactagc gtcacttgat 120  
 tgtaccattt gttttctgga atgaatcctt tctcatgaag tgataagatt atgagaagag 180  
 aggtagatgc aaagccctta aatagtaact tgaaactttt gtttataagg tcaacttatt 240  
 taagattgcc ttagttggat gtttctttat tcccttgaaa aatatg 286

<210> 2887  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556940H1  
 <400> 2887

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 cactctccct cgtncctcga ttcctttctc tgcaagagc gagaaacgtt cgaggaagac 180  
 tttgacgcga acggtgacga gtgcgagacc gaaaacaacg acccctctgt gataaagtcg 240  
 caacctttgc ccttggtttt gtacgacaat gacctgttct gggaaga 287

<210> 2888  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556941H1

<400> 2888

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caaaaaacat ggatatgggg tggagaaatt taactcgacc ttgtatgatg aatgggttaa 180  
caagggaat gcaccggcac tgcccagac tcttaagaat tacaacaagc tgggtgtctct 240  
tggcttcaag attatattct tgtcaggaag aacactggac aaacag 286

<210> 2889

<211> 77

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556943H1

<400> 2889

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atattgtaat atataat 77

<210> 2890

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556944H1

<400> 2890

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aactttttgt ggagctcatc tgggtctgga tacgaacata cttggccaga aatagaattt 120  
gggtggagaa taataacggg tacgataatt ggattcgtag gatctgcatt cggaactgtg 180  
gggtggtgtg gtgggggtgg catctttgtc actatgctct cccttattat tggatttcat 240  
gcaaaatcag ctactgcaat ctccaagtgt atgattacgg gtg 283

<210> 2891

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556946H1

<400> 2891

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 agaaaaaaca tgtctagggt ttttggttc ttctttgtgg gtcttacgtt gatgttggtc 120  
 ggtgtggcaa atgctatggc taactcttcc aacaaatttg atcaactctt ccaaccaagt 180  
 tgggcttttg accactttat tcatgaaagg gatcttctca aactcaaact tgacaaattt 240  
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<210> 2892

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556947H1

<400> 2892

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 ctatttactc ctaactcaga aagtgtgaag gaattccctt ctctgaatc acttaagaag 180  
 agaattatta tatcaaccaa accacctaag gagtaccttg aggcaaaaga aaaggaaaaa 240  
 ggggatgatt cacagcacga aaaggagaaa gggatgattc agagc 285

<210> 2893

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556949H1

<400> 2893

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 agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtgggtttc 180  
 acttggtggc ttgggttact gttacatgac ttgttttttg agatatcact ttagccacaa 240  
 taaggaagat tagatgttct gcatatgatt gtcagaggaa cca 283



<210> 2894  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556950H1

<400> 2894

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 tgtaatccat ccagagttat tgggaatttt tctccaaatg ttggaaatgg tgtaatttg 180  
 aagaacttgt tgcttttttg agccgcggat acatattggg ggacatctag atccgttcag 240  
 ggtcagcatc atggcaagga ctattacgaa tgcttggtg 279

<210> 2895  
 <211> 96  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556951H1

<400> 2895

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<210> 2896  
 <211> 74  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556952H1

<400> 2896

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<210> 2897  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556953H1

<400> 2897

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 ggtgcaggcc cggttcgggt ttggcaagaa gaaagccgcc gccccgaaga aagtttccag 180  
 ggggtcgggc tctagctccg ataggccct gtggtatccg ggcgccaagg cgccgagtac 240  
 ctggatggga gccttgctcg agatacggat tcg 273

<210> 2898  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556954H1

<400> 2898

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 agaaacaaaa atgcacgcaa agacagactc agaggttaaca agcctcgccg cgtcttcccc 180  
 cacgcgtcc cctccacgcc gtccctctta ctacgttcag tctccctcgc gagattctca 240  
 cgacggcgag aaaaccgcaa cgacgtcgtt tcaactccacg cccgtt 286

<210> 2899  
 <211> 97  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700556955H1

<400> 2899

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<210> 2900  
 <211> 283  
 <212> nucleic acid  
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<223> Clone ID: 700556956H1

<400> 2900

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aagaagcttg gtttgtgggg tctctttacg cgtggtctcc ccctccgaat tgttatgatt 180  
ggaactctta ctggagccca atggggaata tatgatgcat tcaaagtctt cgtcggattg 240  
ccaaccactg gtggctctgc tctgcagct gctccagctc ctg 283

<210> 2901  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556957H1

<400> 2901

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tcccaacacc acaatttaaa aagcaaggcc ttcgcagttg ttttcaccac aacaaattct 180  
ancccaattc caaagannnn nnncatgagg ctattgangg ttggnacatc taatctgaac 240  
caatgggcga tggacttcga ttgcaacgcc aagcaaatca aagag 285

<210> 2902  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700556958H1

<400> 2902

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cacaattttt atttttttat ccaancacaa aattntgana atataagant ttcaattgaa 180  
gtatttgaaa ttcttattaa attctctcat ccaaacacac tcttaaggta attattacaa 240  
aagtnaacta tcttaccttg aaatttaata tagaataaat 280

<210> 2903  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556959H1  
 <400> 2903  
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 caatggctac attagtgcta atgacccctt gaactggggt gcggcggcgg aggctatggc 180  
 tgggagccac ctgcagcagg tcaagcgcgt gctagangag taccggacgc ccgtcgtcaa 240  
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<210> 2904  
 <211> 156  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556960H1  
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 aaaaataata cagaattatg cggctatttt tccctc 156

<210> 2905  
 <211> 281  
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 <223> Clone ID: 700556961H1  
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 agccaccctt caattggcgg agatcaagca cgcccgctt gccatggtgg gcttccttggg 180  
 ctttgcatgc caagccgccc ccaccggcaa gggcccgtc aacaactggg ccaccactt 240

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281

<210> 2906

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556962H1

<400> 2906

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gtagagagtg aatggggcca ggggtgctaag cttgatgttc tggaatcaaa gattgcttca 120  
gatacttcac acactattaa ggcaatttgc attgtccaca atgagactgc aactgggggc 180  
accaatgact tggccaaagt gagacaaatt ctcgattcct accggcatcc agccctcctt 240  
attgttgatg gagtgtcttc tatttgtgct ctgatttccg ca 282

<210> 2907

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556963H1

<400> 2907

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ctctgcatcc tcttgcttac ctctcccat tttcacaccc ttctacttcg cgcctttctt 120  
tctnnnnnnn nnnnnnnnnn nnnnnnnnnn ntctatcaat ttctccttct tttttatcat 180  
acactttctt aaattctaca cactttgcca ctcatgctgc cttcagcatc agtgccagcg 240  
ccgccgagaa gaagaagggtg ctcatcgtca ataccaacag cggcggt 287

<210> 2908

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556964H1

<400> 2908

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cttgcaagac cgtggcagat ttttatgggt ttttcaagaa taatgccaaag gagcagggtt 120  
 ggacgatgtc agaatcacat ctaaatectg gtcgagcacg gttcatcca gttgataata 180  
 atagatgata ttctcagctt tcggcagctg ggttttgact gtcaaagtgc ttgggactgc 240  
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<210> 2909  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700556966H1  
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 tcttgatgcg agccaccgtg acctgaggcg tgcaagggtca gcagcactca acattgtccc 180  
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 acattcctgt tcgtttttcc ttgcacactt ttcttctnct tcgctccgtg ccatgtcttc 180  
 ctctctcgct ctctcttcca ctcccttctt cgccaatgga acaagaatct tcgctctcaa 240  
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<223> Clone ID: 700556969H1

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 gaatggcaga aagccagctt ttgacagcca tgtttttagag atgaggaagt tgcagccttc 180  
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<210> 2912

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556970H1

<400> 2912

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 aatccaccga accggttctc aacctcatct gcaccgcttg ctccaaaccc tgccgatcca 180  
 aaaccgagag tgatttgac acgaaaagaa ccggccatac cgagttcggt gacaagactt 240  
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<210> 2913

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556972H1

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 gctccgctc aggccggcga ggtccgtgtc caaatcctct tcaccgctct ctgccacacc 180  
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 <212> nucleic acid  
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<223> Clone ID: 700556973H1

<400> 2914

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<223> Clone ID: 700556975H1

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<223> Clone ID: 700556976H1

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tgtaagggga attgacttta aaaatgtata cacgggtata aactttgaaa tgcctcagag 180  
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 agaaaaaccc cttttgtgca gatgagtggc cactgtatg ctaccaatgg aactggaaat 180  
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ttgcgcgaan accatcaggt gtgttcagtt gctctgtttt atgcaactct gtttttttgg 180  
ttccgcctag gtaggtgttc atgtcttgtg ttttggactt tcggtactaa gagtaggcac 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556980H1

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<210> 2921

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556981H1

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tttttgctg aagggtcgtg tctactgtga cccttgccgt gctggttttg agacctcagc 180  
taccacctac attgctggtg ctgagattat gttgcaatgc aagagcaggg ttagcaacga 240  
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<210> 2922

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556982H1

<400> 2922

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caagaagaag agaacagaac agctattcgg ttctgtcagt tcaagaaatt ctccaattga 180  
aataattgnn gtataactct taactcatca ctctcttgta tattttatat tagttaatat 240  
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<210> 2923

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556983H1

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tctcatctcc aagcctctct tcaacgatct ccaactcgcc agagatgaaa tgtgcaggga 180  
aagactgcgt tacctggaag ccatggctat atattctgag gctattgcaa tgggtggagga 240  
gtatcagcaa gccatttctg tgtctaacct tgggtggaatc a 281

<210> 2924

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700556984H1

<400> 2924

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cttccccaac cctcgtcgtc atggagaata gtaacattca gaagcagaat ctggatggtc 180  
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 ggtcagcatg aggaagaccg tcaccaagca ggcctcctcc ggaagcccat ggtacggccc 180  
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 atgactctta tacaggggat aacagcacia caaaaacaaa tggtgctcag aagataaact 180  
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<210> 2927  
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gagattacat taccaaaact attcgatttg gacatttctt actgtgcatg tttcataggc 180  
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<210> 2928  
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 <213> Glycine max  
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 gggaataaca acagtgtgat tcaggaacat ttgcagggna atagtgaatg gaaagattgg 180  
 tacctgantg ttttatctaa tcgcaatgct gtggaaaatg tctatcaatg gtcgtgtggg 240  
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 taccaggtgg actcggtcgt cttgtgctga atgttagaag caccagcttg tgtcgaaggt 180  
 ttcgtggctt gaaactgtgg gtacttgaga gactcaactt ccaattccag ccaccaaagc 240  
 aacctaagaa tagaaatcat cacttcaaaa ataatttg 278

<210> 2931  
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 <213> Glycine max  
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 tggaccaaga tcaactccat ctccatttgg cttctccaga aaagcctcct ttcttgtaa 180  
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<210> 2932  
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 <213> Glycine max  
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 aaaccctgag aaatattttc actgtgatca tagtcaagat cttctccgga agatccctat 240  
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<210> 2933  
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<223> Clone ID: 700556996H1

<400> 2933

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tggaacaagc ataataagca tggcaagcgc gttgcagctt caggggggttc aagggaaacta 240  
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<212> nucleic acid  
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<223> Clone ID: 700557002H1

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<223> Clone ID: 700557003H1

<400> 2935

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tactatgatt ttgggctcta tatctcagtc caaggcagca ggagttgtag ttgatttcac 240  
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<210> 2936  
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<210> 2937  
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<210> 2938  
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ggaagatgaa ggaaagcagt natgggtttg tgagagcgga tcagattgat ctgaagagca 180



tagatgaaca gtngganagg cacctcagca aggtgttgac catagaaaag anaaagcgct 240  
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<210> 2939  
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<223> Clone ID: 700557007H1

<400> 2939

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<210> 2940  
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<223> Clone ID: 700557008H1

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<210> 2941  
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<223> Clone ID: 700557009H1

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<213> Glycine max

<223> Clone ID: 700557010H1

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ggcgccaagt tctgggaggt ggtttgcgcg gagcacggga tcgacccac tggaaggtag 180  
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<210> 2943  
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<212> nucleic acid  
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<223> Clone ID: 700557011H1

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<210> 2944  
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 tggctcctgga ataaaggaat tcaatgatgc aaattactgg agggttgacc aggaggttgc 180  
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<210> 2945  
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 cacgaggtgc agactcaatt gggatatttga attttctgtg atggtcacgt ggatatccgg 180  
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<210> 2946  
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 <223> Clone ID: 700557015H1  
  
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270

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<223> Clone ID: 700557016H1

<400> 2947

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ttctaataa taccatcatg ctctcatatc tctatgtatc tgtnttcctt ttctttgcat 180  
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<210> 2948  
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<223> Clone ID: 700557017H1

<400> 2948

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agctgagact tactcaagga actcttcagt ctcttctctg ccagagactg tagaaggaaa 180  
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aaaaaagatc cc 252

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<223> Clone ID: 700557018H1

<400> 2949

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 <213> Glycine max  
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 <400> 2950

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 agagaactga gcagcttata cccattttct cttcacttct tccattctcc gccaccgcca 180  
 ccacaactac caccacggat ggcggcgacg ggcagggcgg aagcgaaaac ctactgggtgc 240  
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<210> 2952  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557021H1

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gaggagaagg agaaggattc caagaaaaag aagaagatca aggaggtgtc tcatgagtgg 180  
caactcatca acaagcagaa accaatttgg ctgcgaaagc cagaagagat caccaaggat 240  
gaatacgctt ctttctacaa gagcctcacc aatg 274

<210> 2953  
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<213> Glycine max  
<223> Clone ID: 700557022H1

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cacctctaataattacaacg acaacaacat ccaacgacga cccaatccg aagctattca 240  
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<211> 265  
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<213> Glycine max  
<223> Clone ID: 700557023H1

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cactcttact gttgtctaga ttatgcacag atatatgatg tggttaggta cagaatacat 180  
cgcatgaaaa agctgctgaa agatgaattg gacaacaaga acacaattga ggaatatatc 240  
tgtacaanat gtggaaaaag atatt 265

<210> 2955  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557024H1  
  
 <400> 2955  
  
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 gttgtctttt gaagttgtgc aaaggatggt gctcacacaa aggccttagt acattgagtg 180  
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<210> 2956  
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 <213> Glycine max  
  
 <223> Clone ID: 700557025H1  
  
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 gataagcagc caccgatatt ttgcagctct gcttcgatgc acgagcctgg aaaacactca 180  
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 tggtgcaaca ggctatgcaa tatattgacg a 271

<210> 2957  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557026H1  
  
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 accatagtct cnccatgcgt gatccacccc gaccagaaat caaacatgaa acccttgaga 120  
 ctctctgttt ctgaccttcc aatgttgctg tgctactaca tccaaaaggg cgtgttacta 180





gccgtgggct ggaagaatat ggcttcattt gtttctaccc actgtatcct tcctagcggg 60  
 gttggatttg tgcattgacca agatcgttct tgtggttagaa ctaacacttt gcatcttcaa 120  
 aatgctccta aaagccctag ctctctctcc tttttgctct ccgtgcgaga aagtagatca 180  
 gatgccgttg ttgttcagag caagggtcga tcgtcttttt ctcaaacagc tgctgtgagg 240  
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<210> 2961  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557031H1

<400> 2961

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 aaattcagca ccataataag aatgtctgcc actgccaccc caccaccatc cacctccaca 180  
 aagccagcaa gcagcaagaa gggcaatatc aaggagaccc tcttgactcc aagattctac 240  
 accactgact ttgatgagat ggagacactc ttc 273

<210> 2962  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557032H1

<400> 2962

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 gatganataa aggatattgg aaaggctctt ctaccatcct ctaccaataa taaggctctt 180  
 cctgctccag aagagaaaag ttcagagctt gctacagctg atagcactgt acagaatgca 240  
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<210> 2963  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557033H1

<400> 2963

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acccttgaa ctgggggtgcg gcggcggagg ctatggctgg gagccacctc gacgaggtca 180  
agcgcattgt agaggagtac cggaggcccc tcgtcaagct cgggtggagag accctgacca 240  
tctcgcaggt cgcggcgatc gggcccagac caggg 275

<210> 2964  
<211> 263  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557034H1

<400> 2964

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cgcaagtaac cgaggaccaa atccagaggg atctatccat gaacaagttt gattgggac 180  
atcctatcca cttgcagccc acaagtccta ctactgtgaa gaaggtcagt gttgtttggg 240  
atgcctatga agcaacaaag gat 263

<210> 2965  
<211> 222  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557036H1

<400> 2965

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caaacctcat attttaggct ttcagcgcgt atacatctaa gatttgtagt tgcattatgg 120  
tattgctaatt gcagatttca caactgaatc cctcattccc actggctctg taaaaggaat 180  
tgataatttg acataatgaa tgaactttgt gattattgag tt 222

<210> 2966  
<211> 269  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557037H1

<400> 2966

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tgcagtttaa tcttccagt acgtgggtcat atgggaagaa atatggactt actctggaac 180  
aattgtcttt attgtggagc aagaaacctg caacactggc ggggttagaa tcaaagggga 240  
ccattgcagt tggaaacctat gcagatatt 269

<210> 2967  
<211> 271  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557038H1

<400> 2967

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ccagtccata aacacagga actgcgtggc ctcacttctg ctgggaaaag caataggggt 120  
ttacgtggca gaggacatct ctaccacaaa aatcggtccat cacgcagggc aacctggaag 180  
agaaacaata cctctccct tcgtcgtac cgttgatttt gttgcagtta tcgtatgttg 240  
cttcattttc tgagtatttg gagggaaaatc g 271

<210> 2968  
<211> 269  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557039H1

<400> 2968

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caattcagct tgctttggat tgatcagcag caacgcctga agttcaatgt tgatgttggt 180  
gagagtgaat ggggccatgg tgctaagctt gatgttctgg aatcaaagat tgcttcagat 240  
acttcacaca ctataaaggc aatttgcatt 269

<210> 2969  
<211> 205  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557040H1

<400> 2969

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atgcttggag caggacctg acagcaaggt tgcctgtgaa acctgcacca agaccaacat 180  
ggtgatgggt ttccggagaga tcaca 205

<210> 2970  
<211> 267  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557042H1

<400> 2970

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agcggaaaag gtcagttatg acaatgacat ggatggtagc aatggaagga ggaacttgat 180  
gttcgccgcg gcggcgcggc tgctgtttgc tctgttgctg ggatggcagt ggcagatgag 240  
ccaaaaccag gaaccccagc agccaag 267

<210> 2971  
<211> 268  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557043H1

<400> 2971

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 tgaaagtctt ggacctttcg tcaaactctc ttactggtga gattcccaag gctattgaga 180  
 acatgagaaa tctgactgat gttttgctca acaacaacaa tctttctggt cacattccta 240  
 atgggtttggc acatgtcgct acactctc 268

<210> 2972  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557045H1  
 <400> 2972

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 aataaatnat gnnagtngac naataaaaana ggagaggnga tgtttgaata anaatanttc 180  
 cccttcaagt tcttattttt ngngaggaca ggacaatatg aatgtnttat natgctctat 240  
 caacacatta a 251

<210> 2973  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557046H1  
 <400> 2973

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 aagtttctgt tttttctact tttccatttt tttnnnnnnn nnnnnnnnnn nnnnntctga 180  
 ttcttcacca taactgtcat tgctttgctt ctctcactca gcacaagttg acaagaaggg 240  
 cattgccatt tcaatcccat acaaaaa 267

<210> 2974  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557048H1

<400> 2974

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aaatgcactg cgacgggttg gcttccaaaa tcatcaaaca cctccgctgt ttccaagggtg 180  
tggaacgggt gaaggctgat agcgacgccg ggaagggtgac cgtgaccgga aaagtggacc 240  
ccacgaaagt gagggataac ctggcggaga ag 272

<210> 2975  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557049H1

<400> 2975

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cttcattca cacactctct ctaacttcag ggcagagcta tgggcggaaa ttttatgnag 180  
gaattggaat tcatggcatc aagggaagggt ctgagctctc agttgccaat gttgccactg 240  
aagttaactc tgtagaacag gcccaaagta ttg 273

<210> 2976  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557050H1

<400> 2976

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caaacctttc gtgcattaaa gatatggaga tcatggaatc aaagagcagt gaacaacaat 180  
tgcagcacca gcctgtccct gttctctctc tgcctaaaga agtggttttc tcttcgcaa 240

gaccggttag tgagcttgat gctgcggc 268

<210> 2977

<211> 268

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<400> 2977

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ttccattaac ggggtggcgcc tctcttccat ctccccagcc aaaacctctc tcaagaaggc 120

cacattaggc ccttctgtct tcgcaaccgt tagcannnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnc tcattcaaga caggcctgtc tttagctgcc ctgcccccat 240

catcacccca actgtgagag aggatatg 268

<210> 2978

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557052H1

<400> 2978

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cctagcagcg ggtcacatga tccctctctg cgacatggcc acactcttct ccactcgcgg 120

ccaccacgtc accatcatca ccacccctc caacgcccaa atcctccgca aatccctccc 180

ctccaccct ctccctccgc tccacaccgt tcagttcccc tcccatgagg tgggtcttcc 240

cgacggcatc gaaaacatct ccgccgtct 269

<210> 2979

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557053H1

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gaagtactca atttcttgca ttatgagtga tgcaactgtg cctctgggtc ctatttctac 120  
 tgggggaaat tcagccttat cttttgtgtc atttgagtca agggtagtgg atttatgcat 180  
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<210> 2980  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557054H1  
 <400> 2980

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 gttcaaccca gtccaaccaa acattatgct ccaaaaagat gctagtattt catcctctgg 180  
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<210> 2981  
 <211> 268  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557055H1  
 <400> 2981

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 atggaatgct gtgggaagtt gaggggaagt gggttgttaa aggagcagtt gatgtagaca 180  
 ttggtgcaaa cccttctgct gaggggtggag gagaagatga gggagttagat gatgcagctg 240  
 ttaaggttgt tgacattggt gacacatt 268

<210> 2982  
 <211> 238  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700557056H1

<400> 2982

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ctgcacttac ttcaccagat ggccagactg cttcagtaga atatgtgggt gataatgtgc 180  
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<210> 2983

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557057H1

<400> 2983

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cccatctcct tcaccattta tttccttaca taccttgggg atgtaagatc cgagtgggaag 180  
tcctataaga cgcgtcagaa ggaacatgat gagaatgtga agaaggttat caaacgtctc 240  
aaacagagga atccatcaaa agatgg 266

<210> 2984

<211> 267

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557058H1

<400> 2984

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aatcactccc cacctttgga attcaagggt ttgagcaagg aggaggaaga ctcattgcta 180  
gggcaagtgg aaatatggag gtacatgaca tgcttcacgg actccgtggc cttgaaagct 240  
gtcatagagc ttcgtatagc ggacata 267

<210> 2985  
 <211> 266  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557060H1

<400> 2985

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 cgtacttggc ttagttcaca actcgaaact tcaccgaacg cattccattc accaattcgt 180  
 ccaagtctcg tatcaatcag tcaatccgtc tcgtggaggt tggagagatc ggaggggaaa 240  
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<210> 2986  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557061H1

<400> 2986

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 cccaaatgcc cagcctcaga tctccccgtt tccgcattggc ttccaccctc cgctccgggt 180  
 ccaaagaggt tganaatatt aanannccat tcnntcctcc cananangtg catgttcaag 240  
 tnaccactc tatgcntccn caganga 267

<210> 2987  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557063H1

<400> 2987

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tttcgtctgt tgttgtcaat gtaactcaac gacgctcctt ggtgaggcca ctcaacgccg 240  
aaccgcaacg gaacgattct attggt 266

<210> 2988  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557064H1  
  
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gaactgagtg tgtatgagat caatgagaga gatcgtggaa gccctgctta tcttagattg 240  
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ctcgtaatgt tcgtttcgat tttttccaaa agcgccctgag tttcttcccg agcgaaatct 180  
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<210> 2990  
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<210> 2991  
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cttgacaagg acacacaaaa gaattttacaa caatgggttca tatagggtggg taccatgcca 180  
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gcacacctga ttacttagcc ccagagatac ttttggggaac tggacatggg tttactgccg 180  
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 cgagcgacat tgatgagccg acacacttgt acctaaatgc gaaaccgtat gaagcagcgg 180  
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 <213> Glycine max  
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 gggnatnanc gacggattgc cttacattga tgacgantac gcagacccca gagtnacact 180  
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aaagatttcc ct

252

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 <213> Glycine max  
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 tccggcgtct ccgtcaagct cactcccca tccataacgc tttcacgctc caagcccctc 180  
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 <213> Glycine max  
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 <213> Glycine max  
 <223> Clone ID: 700557078H1  
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aattgcatac tccatcggca acaactactg atgctagttg tgattcgggtg gttaccactc 180  
ctcagcatac cctgagagat gctagtaacc ctgctggact cctatcaatt gcagaggaaa 240  
ctttgacaga gttccttcaa ag 262

<210> 2999  
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<213> Glycine max  
<223> Clone ID: 700557079H1  
<400> 2999

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accgtcaccg cncagtgttg tnaanggnna catggcgtat tcaacgtgaa gtgcaagtac 180  
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<210> 3000  
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<213> Glycine max  
<223> Clone ID: 700557080H1  
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cggcgtcgtc caagaagccc ctctcccacc ctcccttcgc cgtgatgata gcagaggcga 180  
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ggaagcacia ggagttgcct gcaacctac 269

<210> 3001  
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<223> Clone ID: 700557081H1

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 aaaatttctc cgaagactgt gtattatcgt tatngtncac tgagttaggt tttgctgttc 180  
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 aa 242

<210> 3002  
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 <223> Clone ID: 700557082H1

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<210> 3003  
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 atggtccttg gtgaacaagc agaagcctat ttggatgagg aagcctgagg agatcacaaa 180  
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 caagcacttc tctggt 256



<210> 3004  
 <211> 264  
 <212> nucleic acid  
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<223> Clone ID: 700557084H1

<400> 3004

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 gcagcagttc ctctttccag ctttggtgtc accaatgcct cttctttctg cttttccatg 180  
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 gactttggat tcgacctctt tcgt 264

<210> 3005  
 <211> 265  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557085H1

<400> 3005

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 ggtggttgaa caacttagtg gccaaacccc agtggtttcc aaagcaaggt aactgttcg 180  
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 ggcaatgcaa cttttggaga gtggt 265

<210> 3006  
 <211> 264  
 <212> nucleic acid  
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<223> Clone ID: 700557086H1

<400> 3006

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 ttagtaattn ctagtgttta ttgaaatgct acttgaaata gtgcctttaa aatattagtt 180

tctaactttt attattttat attttnnnnc ttttnattttt aatatattta tncatttnnn 240  
nattatcntt taaaataann tata 264

<210> 3007  
<211> 153  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557087H1  
  
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atatgtgtat taaggggcct taataataaa tca 153

<210> 3008  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557088H1  
  
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cgacgagatg aagatcgccg gttctcttca cgcttttgaa gtttctgaca aaatggctcg 180  
cctcgtcgcc agcgatccgg cattcagaaa ggatgacaga gttgtgcttg ataggaaggc 240  
gttatattatg aacactttga ggaaa 265

<210> 3009  
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<212> nucleic acid  
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<223> Clone ID: 700557091H1  
  
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tgagactccc gtccgagagc gaggagatct cgcgcgacta ctgcgacagt ggatgctggc 180  
 ggtggagacg aacaacgccg ggacgtggaa ccgcgtgccg gcgagttgcg tggacttcgt 240  
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<210> 3010  
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 <212> nucleic acid  
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<223> Clone ID: 700557092H1

<400> 3010

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 taaagtctat gctttcactc aaatgcttta agtgcttgca atctcttttt gtcttatccg 180  
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<210> 3011  
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<223> Clone ID: 700557093H1

<400> 3011

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 tgaaatgaga gaattctcag caaggacaat cagaatttga cctcaaattc tttcttatta 180  
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<210> 3012  
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<223> Clone ID: 700557094H1

<400> 3012

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<210> 3013

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557095H1

<400> 3013

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<210> 3014

<211> 264

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557096H1

<400> 3014

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 gtcctcactc tattagctat gaaatacaaa gaacgagtgc ttggattgat tcttgtttca 180  
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<210> 3015

<211> 222

<212> nucleic acid  
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<223> Clone ID: 700557101H1

<400> 3015

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tattgctaata gcagatttca caactgaatc cctcattccc actggctctg taaaaggaat 180  
tgataatttg acataatgaa tgaacttttg attattgagt ta 222

<210> 3016  
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<213> Glycine max

<223> Clone ID: 700557102H1

<400> 3016

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aacaactcga acnaacttct attctttcaa gagcaagaga agggcaccga gatcccgcgt 240  
aaggtcgttt gcccgttgcc aataggatcg acttgggtag taagattcat tgtg 294

<210> 3017  
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<212> nucleic acid  
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<223> Clone ID: 700557103H1

<400> 3017

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cccaacatat ggagttttca atagacggtc tctattattt gtt 163

<210> 3018  
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<212> nucleic acid  
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<223> Clone ID: 700557105H1

<400> 3018

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caatcaccac caccagcatg gccaggaaca gctattcccc agccttctga tttcaagaca 180  
tgggatgggc aaaacctatt tctgtcttag gatctacggg ttcaattggn cctcagacac 240  
tgagtatagt ggctgagttc ccagaaagat ttaaagttgt gagcctgctg c 291

<210> 3019  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557107H1

<400> 3019

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ggacagcatg gctgagaaga tgcttgccag agagatcaag gagggcgact ctgttatagt 180  
ggatgttgat tcnnctggta atgtattgtg ctcaatggta gcagcggagc ccccgaaatcc 240  
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aacc 304

<210> 3020  
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<212> nucleic acid  
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<223> Clone ID: 700557108H1

<400> 3020

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<210> 3021  
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 <223> Clone ID: 700557109H1  
  
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<210> 3022  
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 <212> nucleic acid  
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<210> 3023  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557112H1  
  
 <400> 3023  
  
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 cngcttcatn ggctcgcatc tctgcgg 87

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 <223> Clone ID: 700557116H1

<400> 3024

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gtcgggaggg tcagcatgag gaagaccgtc accaagcagg ctctccgga agcccatggt 180  
acggcccaga ccgcgtcaag tcttggggcc attctctggc gagcccccg cctacctcat 240  
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<210> 3025

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557117H1

<400> 3025

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aaaattgcgt atagttttgt ttatttagag caacaactag tncgaaattg ctcaaactca 180  
aatcaatttg gatctaaatc aattctgcgg tattatgaat atttacctat gatcacttaa 240  
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<210> 3026

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557118H1

<400> 3026

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cattactaga aagaaaaaaa atgaatctct tgaattggag ttagagactc gaaatcgggc 180  
aaaagcagaa tacctgatca acgaaatctt gaatcatcta tctcaaacca agaaaaagat 240  
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<210> 3027  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557119H1  
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 ttctggtttg tgtctcacia gcatcagcaa tgggaggttt agtccccacc acaatcttct 180  
 acaccatcaa cgctcttttg gccctgatgt tggttctttc acggagtggc ttggttcact 240  
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<210> 3028  
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 <212> nucleic acid  
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 ggtgcaagcc gtgtcatgca atgatgtttc tgtgaacctt gcaccgtgcc tatcttacct 180  
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ggatacaggc atattgattg tgctcaagcg tataacaatc aagcagagat tggttctgct 180  
 ctttaagaagc ttttgatgag gtgtggtgaa gcgtgaggac ttatggatca tntccaaact 240  
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<223> Clone ID: 700557123H1

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 ntcentattc ttgagcaacc aagtggctca ccagtttcat tggnttntct cangngcagt 180  
 tcaaaatcca agnttataac tgctngtnan ccntcnatt gacagaatcc agtnaccaac 240  
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<223> Clone ID: 700557124H1

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 gcggataagc ccattggtca gcccaaaccg gttgggatta aaaaagcttt ggtgttttac 180  
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<223> Clone ID: 700557125H1

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 acatctccgg tgctatatcc cgccacctct cctccacctg cacctcttgc tccctggaga 180  
 ttccttccgn ngactccgtt ctctcccttn gctnttntac ctgcgtatac agttccgagt 240  
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<211> 137

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557127H1

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<211> 176

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557128H1

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<210> 3035

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557132H1

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aactctcaac tctctcattc caagacacta acttctctc aatgccagaa gacatcttta 180  
caaggcctct cacttcataa gccaaaagg gtgtttcaga atccttccta gttgagaaca 240  
agaatggttc ctccattgct ggaaggagac ttgagatcaa agcaagaatg ctggggcctc 300  
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<212> nucleic acid  
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<223> Clone ID: 700557133H1  
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gcgattgaaa cggtagatg ggaagaggaa aattcaagag caagcccacc ggtcgccgcc 180  
agttctccac cccggaagat tgcttgetgg aacctctaac cgtcctcgaa cttttagaca 240  
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tcag 304

<210> 3037  
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cctcaacaaa gacaacctct ttatgagaag atacaagaac tggtttagagg ccatatacca 180  
attgaatctt caacttatgg ggaccacaaa actggattca attaacctac gagatcttca 240  
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gtgcatc

307

<210> 3038

<211> 307

<212> nucleic acid

<213> Glycine max

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acccttttgg gagctactgg aagcccatth gtgtgcaggg ttcattattgc cctcaagttg 120

aaggaggattc aatacaata tgctgaagaa aatttgagga acaagagtga actgcttctc 180

aatccaacc cagttcacia gaagttccag tgtttattca caatgagaag cccatagcag 240

agtctcttgt gattgttgaa tacattgatg agacatggaa gaacaacccc atcttgctt 300

ctgatcc

307

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<213> Glycine max

<223> Clone ID: 700557137H1

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gggacactct cgagtgcaca gatcaacgag ctggttctcg ggttggaata aagtgcagaa 120

cggtttctgt ggggtgtgaa gagcccaaac gaagaaatag ccaangcgac gtacttcagc 180

gccgagagcc aagcggancc ttgcagttct taccggaagg gttcgtggag agaacaaaag 240

gaagaggggtt tttggttcag tcttgggctc cgcagcctca ggtattgggc catccatcca 300

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<213> Glycine max

<223> Clone ID: 700557139H1

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 ccatggaatt attggtcaaa ttttagtttc tatataggta tattggaaaa aactatgatc 180  
 gtcaatttct gctcccgag tatctnccta tttttacatg tgtaatgatt agtgtacact 240  
 gcattctaga gacataataa gtgaaaggaa atgaaaggna aaagattaaa aacatgaaaa 300  
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<210> 3041  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557140H1  
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 caaagaaaga aactgtgtgg ttgtggctga agcaagtgga gacttgatag acatattgtt 180  
 cagttttctc nccttccact cggaactatc ataaggcttg tgcgaaaaa gcaagggcac 240  
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<210> 3042  
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 agg 183

<210> 3043  
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<212> nucleic acid  
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<223> Clone ID: 700557144H1

<400> 3043

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catatgagat gnaggntgaa taatcaggnc ntgcatgttt tntgtaacgt gtcgtctgta 180  
tgatcncnct acatncttcg anatctcnca gtngtangac tgtcatggca cnataggaat 240  
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<210> 3044  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557146H1

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ctaactttcc gaccactccg aaagctgttc actccgacga ggaagtgaac acattagcat 180  
cggctcatcc taagaacgtg cggggcgtcg atttttaagg agacaaggca tcccgtgtac 240  
agaggagtgc ggcggaggaa caacaacaag tgggtctgcg aggttcgtgt tcccaac 297

<210> 3045  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557147H1

<400> 3045

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actactttcc ttccact 137

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<223> Clone ID: 700557152H1

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 acttctactg ctgcagcnac aactcaagtt t 151

<210> 3047  
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<223> Clone ID: 700557156H1

<400> 3047

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<210> 3048  
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<223> Clone ID: 700557157H1

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 aatgcttgga aaccccatca acctcagtgg tgccacaagg ccagctccat ctgcctctag 180  
 ccctgcctcc ttcaagactg tggctctttc tccaaaaaga aggctgcacc tccaaaaaaa 240  
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<210> 3049  
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<212>      nucleic acid
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<223>      Clone ID: 700557159H1

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aggcagaact taatttctta ctaagaaatt ttttgatttt acattttaa at tggaataatt   180
tctaggtcaa agtatataac aatgtcaaag tatattgtct cctgattaga ttaaaaattt   240
aagagaatta caatagccct atcaaagagg agaactaggt ctagatatta tgtg         294


<210>      3050
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<212>      nucleic acid
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<223>      Clone ID: 700557160H1

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<223>      Clone ID: 700557161H1

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gggcgggtgc aggcccgggt cgggtttggc aagaagaaag ccgccgcccc gaagaaagtt   180
tccagggggt cgggcttagc tccgataggc ccctgtggta tccggggcgc caaggcgccc   240
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<223> Clone ID: 700557163H1

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 agaactgggtg tagtataatc gtgca 145

<210> 3053  
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<223> Clone ID: 700557165H1

<400> 3053

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<210> 3054  
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<223> Clone ID: 700557167H1

<400> 3054

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 ccagaagagt tcatatggtg ccaagcaaat taggagagag cttctcatat gctctcaccg 240  
 ataaagtctt gcagtatgct gttctcccga agcctcctta ggagccgacc gttacctc 298

<210> 3055  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max



<210> 3058  
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<223> Clone ID: 700557174H1

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 aggctaacgg tgttttctga cgtgtttcag 150

<210> 3059  
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<223> Clone ID: 700557175H1

<400> 3059

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 cttactgcag agggatgatc caagctatgg acgtagagag tcagtggaat ttctgtttcc 180  
 tacctttgta ttctaagacc nagccaggta ttactgcacc atgtgcacca gaaaactcgt 240  
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<210> 3060  
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<223> Clone ID: 700557176H1

<400> 3060

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ttgatgtcag cccaatctct cgccggtagc tctaaccgtg ctcatgtgtg ctgctgctgt 240  
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 <223> Clone ID: 700557177H1  
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 tacagataag aaggatcttg aaaacaattt gaaaganaag atagattcca tgggtgtttta 180  
 caaganagaa tcatctgctg agtg 204

<210> 3062  
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 <223> Clone ID: 700557178H1  
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 gtcgggcat cgcctacaac aagctcccga caacggcgct gccaccctg ccgggctcat 240  
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 ctccggcggc c 311

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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557179H1

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 <212> nucleic acid  
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 <223> Clone ID: 700557181H1

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<210> 3065  
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 <223> Clone ID: 700557186H1

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 tggtttttagc agtgatgacc ggatcaaggc gatagcagca actaaccgtg cagatattct 180  
 tgatcctgcc ctatgcgttc tggcgtttg gatcgtaaaa ttgagtttcc acaccaagc 240  
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<210> 3066  
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 <212> nucleic acid  
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 <223> Clone ID: 700557187H1  
  
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 cgtttaaagc aaaccataa cagatatcag catatggaca cattcttggg ggaaattcta 180  
 ggcgcagttg tctggctgag agccattcag gtcttaatcc aaaatttgag gcgaaggcag 240  
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<210> 3067  
 <211> 100  
 <212> nucleic acid  
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 <223> Clone ID: 700557191H1  
  
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<210> 3068  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557192H1  
  
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 cgtgcacgac ctcathtagt agagagtaca tcaggagacc gtgatctcca aatggtgaaa 180  
 attggactca gagtccacg cgcctgttcc tgaccagtta ccgacagttt atcgaaccct 240  
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304

<210> 3069  
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<212> nucleic acid  
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<223> Clone ID: 700557193H1

<400> 3069

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<210> 3070  
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<212> nucleic acid  
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<223> Clone ID: 700557194H1

<400> 3070

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caaaacagaa caacggcc 138

<210> 3071  
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<212> nucleic acid  
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<223> Clone ID: 700557195H1

<400> 3071

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gaggaactgg aggcttgtct agcattatgc atgttattta accgaagaaa agcaaagcta 240  
tcagctgagc aaaagtctgt atatgatggg aagctaaaga ggtccaacaa gtattaattg 300



agt

303

<210> 3072  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557201H1

<400> 3072

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ttggagaatc tctaagagtg gcatccaaat caacacaaag gtttcaaaga caaagaatac 180  
ttcactcgtg accagatgtg aaattggtga cagtctggaa gaattcctca caaaagcaac 240  
accagataag gggttgatca ggttggttgg gtccatggga gaagcattaa ga 292

<210> 3073  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557202H1

<400> 3073

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tgctcaenct gctcctcttt cccctactga ccgtagggag ctcgtaggagg agcagccact 180  
agtcctcaag taccacaacg gccagctctg aagggccgca tcaccgtcaa tctcatctgg 240  
tacggcactt caccctgatc caacggtcca taatcgtgga ttcataa 287

<210> 3074  
<211> 227  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557203H1

<400> 3074

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<400> 3077

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atgtttgctt gtgttgatca cttggaacaa cattgtgttg ttgttccaca agctgaggct 180  
cgagcattct ttgtttttgg tgattcgcta gttgacaatg gcaacaataa ctacctattc 240  
accactgctc gtgccgactc atatccttaa tggaattgac tatcccactc a 291

<210> 3078

<211> 114

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557207H1

<400> 3078

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ggtaggttga agccagagaa gtctccttga ggtgatggct gagtttccat cagc 114

<210> 3079

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557210H1

<400> 3079

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aattcataga agttgtattg caactgtaat tagattactg taggttaggc aaatgaaaat 180  
gtatttagaa ttcccattat tactgctttc ttccaggctc agttttcaca gatgaggcct 240  
gttgcaataa cgccttctgt tgcgccccgt atgcctctct accctcctgg 290

<210> 3080

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557211H1

<400> 3080

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 ctgttggagc taaaaaggtc acatgctccc ttcaggtgat ctttaaggact tggctcacia 180  
 gtgtgttgat gctacaaaaa ttgcaggatt cgccttgcc acctctgccc tcgttgtctc 240  
 tggggcaagt gctgaagggtg ttccaaagag gctaaccctc gacgaaatcc aga 293

<210> 3081  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557212H1

<400> 3081

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 gcattttctg gtttttgttc ggtgctgttg gtattgttgg tttgttggtt ccatttgatg 180  
 ttacataga ggagctagct tagccacttt cggcaaaaga actcacagag atactttaca 240  
 caaagaaaga acgcgtttac tgttttagaga ccaaaccaca tcttttgtac 290

<210> 3082  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557213H1

<400> 3082

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 gtgtttcttt tcttctcca gcttggaag actgaagtct ctgtcttttt cagggttttg 180  
 ggggtgttgtt gaagatgttg gtagcaaata gctttgatct atggcgaaag gacgggtttt 240  
 tctctgcggc ggaagaggtg caggaatcag ctg 273

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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557215H1  
  
 <400> 3083  
  
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 ggaaaattca gccccaggct gaacggacgg aacctccgcg tgcggtggtg ggcggcggtg 180  
 cgccggagga gccgc 195

<210> 3084  
 <211> 196  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557216H1  
  
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 aagaagancc catctgggtg cttcaatacg ctcnaggatc tggcaaagct ccatttngcg 180  
 ttgagtttna cattgt 196

<210> 3085  
 <211> 135  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557219H1  
  
 <400> 3085  
  
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 ggcgtatttt attcc 135

<210> 3086  
 <211> 288

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557220H1  
 <400> 3086  
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 tatctttcca acaatottaa aaaactgtac agctctttgt agcttgaata tagagaactg 120  
 ttgtgtcaca tctagaacta ttcaaaaagt tgggatgcat tggactcaag atctgtactt 180  
 gcccatctat gtataggata caacagcccg gtatctggaa atgctataat taatcttccg 240  
 tccagacttt ctaccctgaa aaggttttct gagttgaata tgagtggg 288

<210> 3087  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557221H1  
 <400> 3087  
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 cccactagtg ccttccctct cagaaaacct ctctttcaaa ctccaccac cttgcatttc 120  
 aaaaatcata ggtttgccgt tagctgcagt taccagaagc aggtgtcaac gctgattcta 180  
 gctctaacac catagatgtn gtggctgatg tnagaagtga acggatngta gtctggggag 240  
 ggaaatggtt ngtggttcgg ccaatatgaa ggnnagaatg tccagggg 288

<210> 3088  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557222H1  
 <400> 3088  
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 aatatgtgca ttttttccact taccogaaca aganaagntc caaccctgga agtgcctctcc 180  
 acatgtagac gtnttcatat gacgaatttt tggccaatcc tcacggatct ctccaacaca 240

cctngctnta caacttgcac tcgaattcgc aagtttcaaa gactt

285

<210> 3089  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557223H1  
  
<400> 3089

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gtgtgtgaca acatagaagg actagccaac accttattta tgtttattac aacagaaaac 180  
gaagagtata tatattttgc atctaaccnc caggaatggt anatgaatta actaataatg 240  
acaatatgca ttatattcat gtaaggaacc atactaaaat ct 282

<210> 3090  
<211> 192  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557224H1  
  
<400> 3090

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tcaaccctca gccatggtgt tttctttcaa ccaaagcttc tgcctttctt cttcgcttct 120  
ccttctcttc atggccctct gtgtttcttc tcttctgaca ccgttttcaa ctctcaagca 180  
gogcataccg ct 192

<210> 3091  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557225H1  
  
<400> 3091

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tccaacatgt taacaggttc aatcccagat tcatttcagg atttgggaaa tctaaattac 120

ttgtttctga ctaacaattc tctaagtgga ccattcctga ttggatactg agcataaaac 180  
agcaaattga tttatctttg aacaatttca caaagacttc tgcanataat tgccaaaggc 240  
cggatctgaa ttagcttcaa gcctctctcg cacagcaagc acttcat 287

<210> 3092  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557226H1  
  
<400> 3092

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attgtccgta catttggtact cctgaagaca tagtcaggct ctccctcggt toccaaggcct 120  
tttattctgc agctgattac gacactgtgt gggangtttt ataccctctg atttctcctc 180  
taccatttct ccactttctt cctctaactc taagaaggat ctctatttca ctctctccga 240  
ccgtcccacc atcatcgacc agggtagaaa gagctttcaa ttggaaaagc g 291

<210> 3093  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557227H1  
  
<400> 3093

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aagtagaagc agcaaaaccc aatcaaagac cctcactctc accccacact tcacgtaagt 120  
gaaaacgatt ttgttggtgc agcanaaatg tgttggaagc caaagaaaat gctgggtcca 180  
ttaaacaac agcaaccgat actgctctag aaaactttaa gcagaagtgg gattgtttag 240  
agtagctgtg atcaagccga ggagtttgtg gagtctgtga 280

<210> 3094  
<211> 293  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557229H1



<400> 3094  
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 aatcagaacc tggagaatat gattggtaca gtcatttgtc agtatggaca agttacacca 120  
 aaattatcna acagtcaatg tggactctac ctgttctggg gttatctcca accttaagtc 180  
 tgagggacat ggtaatgttt tcacttcttt gttctatggc acaatctggt attcacccta 240  
 tgtccgagtc ccaaaaactgt ctgccagaat gagagtctcc ctttccaca agt 293

<210> 3095  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557230H1

<400> 3095  
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 ggagaacctt tccctctttg agatcctccc gtttacgatt tgtgcagtca aggcacaacc 180  
 ggagacagtg cagaaggtct gcgatattgt gaggaacaa ttgctctgcc tgctgaatct 240  
 gagcttacct cagacaccaa attttcagca ttggtgctga ttccttgaca ngg 293

<210> 3096  
 <211> 206  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557232H1

<400> 3096  
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 tgctgggtgc cagcttcact tgtgctactt ctggttatgca ataactgaag tttcagggna 180  
 tgaagtgaat acagatggga agctgt 206

<210> 3097  
 <211> 196

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557233H1  
 <400> 3097  
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 tgtgntgaag tgttgaaatt tgaaacctta actattntca ttcatctggn cttggcatgt 120  
 atnaatgctg aaatgaatac catattagac ttggaagctt tagagattga agagggctct 180  
 cctaggagtc aagggt 196

<210> 3098  
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 <212> nucleic acid  
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 <223> Clone ID: 700557234H1  
 <400> 3098  
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 cgcattctca aagggaataa ggggtggcaag aagaaggcag ctgatccctt tgccaagaag 120  
 gattggatg acattaaggc ccttctctt ttcaagtga aaatgttggc aaaaccctcg 180  
 tctctcttac gcagggtacc aagattgctt ctgaaggact taaacataga gtgtttgagg 240  
 tctcttggcg atcttcaggg gtgaggatct gcttcaagaa 280

<210> 3099  
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 <213> Glycine max  
 <223> Clone ID: 700557235H1  
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 cagaaggatc ctccaacatc ttgcagtgcc ggcctgtnc tgaagatatg tttcattggn 180  
 aanctaccaa ntattggtcc tccaganagt ccctatgctg gaggtgtttc cnatgac 237



tccaaaacga cgccgcacct cccaatgctt cttcttcttc atcgtacccc accaacggat 240  
tgaccaggga catgattcac agatacagtc gcnacttggtg ctccct 285

<210> 3103  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557242H1  
  
<400> 3103

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attcggtatg atgggcctta ctggagcgta aatgaccctc tccaagaaca ggatggcata 180  
tctgttatca agtatgcgtt cagtaaggga atcacatttt ttgatactgc ggatgtttat 240  
ggagccaatg ctaatgaact ttggttggaagggttgaag cag 283

<210> 3104  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557246H1  
  
<400> 3104

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annatataaa tatataatga aaaattattg aggagatggt agtaattaag tatgatatga 120  
tataattaat taatgaacat ggtagtagat ctttgataca tgggtgggggtt ggtgggggtt 180  
taatccaatg taaaaatggg taaattaaat tgaagttcct ctagttatgc c 231

<210> 3105  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557248H1  
  
<400> 3105

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cattncgaga ggggacgaan gaganagcaa catatcatct cngaccanac cccgttcatt 120  
caggcagtgn tcantttctct gcgcctcctg acttattcac tcccaantcc agaaccatca 180  
tcgtcnctat ggcacaagca cagcncctat tttcactntc aatcctcgct tctncctgct 240  
tnctcnccca ttctccgaag gcgntttctt tcccttcnat ngtcg 285

<210> 3106  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557249H1  
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tgagcttctc ttgccaaga tgggaatcaa ccccatcatg atgagtgtg gagagttgga 120  
aagtggaaat gcaggagagc agcaaaactg atcaggcaga gataccgtga agccgcagac 180  
ttgatcaaga agggaaagat gtgtgctctc ttcacaaacg atcttgatgc aggagtgggc 240  
gtcttggtgg aaccacccaa tacatgtcaa caa 273

<210> 3107  
<211> 71  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557250H1  
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ccacaacatc a 71

<210> 3108  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557251H1  
<400> 3108

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cagaactggtt tgggtgaacaa gataaggaga aactgcaggt attcaaagga gacactagga 120  
 agcaggggaga tttggatcca tccatgttta ggggtgcaca cacgtgattt gctgcacagg 180  
 aacaacagct tttccttcaa ggcgggtggga tgatgatata caccagaaag agttgattgg 240  
 atggggagtaa agatctagta tctgcatgcc ttccccagtg g 281

<210> 3109  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557253H1  
 <400> 3109

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 anaaa 125

<210> 3110  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557256H1  
 <400> 3110

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 ttctagggct tctcatcttg tgtgcttgaa agcagtccca gttacaagaa ctgaaaacct 120  
 tatgcaaggt caagttcacc ttactctggg aacaaccaca aggttatcac ggagagaaac 180  
 ttgcactggg aggaaccaac cattaccgag aggatggaat tggaatccac gactattccc 240  
 catcagggcc taatggctgt cacactccaa gagcaccata gtg 283

<210> 3111  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557257H1  
 <400> 3111

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 gaagtgccaa acgaattgca aaggcagcga cattaaactc cttggatccc ttaatagaga 180  
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<210> 3112  
 <211> 90  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557259H1  
 <400> 3112

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<210> 3113  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557261H1  
 <400> 3113

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 tgagtccacc aaagtgattg acactttcca aaaccaagcc ancaaacactg aaganggaat 120  
 taccatcttt gttcctaagg acagtgcctt catgctgnan agaaaactgt cctatccanc 180  
 ctcacctctg accagnnaaa gcagtgatcc tcttccatgc ctgccacatt tctattcnct 240  
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<210> 3114  
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 <212> nucleic acid  
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 <223> Clone ID: 700557265H1  
 <400> 3114

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 gagcattttg ggacaagagg atctcacaga ggttggttgg gatgctctgg gtgaggattc 180  
 aaaggctatg tcttcaaaat tactggaggt tgcgacaagc aagg 224

<210> 3115  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557266H1  
 <400> 3115

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 tttcttccag gagattctcc ttgaagtcca aaagaacagt aagagaaggt tttctttggt 180  
 cactgttaga gttgattctg atgaatctga ttgcaatgag gaagaatgtg ccccgataa 240  
 ggaagtaggg aaggtcagtg tggaatgggt agctggggag a 281

<210> 3116  
 <211> 226  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557267H1  
 <400> 3116

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 ctttaaccgt tggagctaga ggtccaatcc tgctggagga ttatcatctt gtggagaagc 180  
 ttgcaaattt tgatagggaa cgtatcccag aacgtgttgt ccatgc 226

<210> 3117  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557268H1



<400> 3117  
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ggttaggcta ttgaatttta aataattaca gataaaataa tcgatatgctt tgatttttaa 120  
aattaatcat aatcatcggt taggttnaac ataatactaa ttcgctaatt ttttaactgc 180  
gcctcagagt atcataacat attctattaa attaataagc ggtgatgtaa taatattaat 240  
atgtagtttt gggcaatcnt tattgggcag aagagcta 278

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<212> nucleic acid  
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<223> Clone ID: 700557269H1

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agatattgcc aatgctgcta tcgtaatcac cttgtgggag cataccaagt ttatgcccag 180  
ccactctttg cttgtggg 198

<210> 3119  
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<223> Clone ID: 700557271H1

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acgccgacgt gactccgagc accgccagaa cttccgcgcg ctctgcaccg gcgagaaggg 180  
cgccggggcg agcggcaagc ccctccatta caaaggctcg tcttccaccg cgtgatcccc 240  
aattcatgtg ccagggcggc gattcaccgc cggaaag 277

<210> 3120  
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<212> nucleic acid  
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<223> Clone ID: 700557272H1

<400> 3120

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 cgccaacctt ctgcattcagt tgtgagtga acccaccac cccattcagg ctcaccatca 180  
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<210> 3121  
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<223> Clone ID: 700557273H1

<400> 3121

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 tctctccttc gaacgttcag tgattctgac ttgaccgaat gctgttgagg ttgaaatctc 180  
 agaggctttg ggatttcggg gtgagaaaat agggcttcga cgaattcctt gcttcccttc 240  
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<223> Clone ID: 700557274H1

<400> 3122

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 agctcgaaga aaactgggaa gggaaaggac ccggaaaggg tgggaaccgc ttttggaaat 180  
 ccattggggt tggttttaag actcccaggg aagccatcga aggaacctac attgacaaga 240

agtgcacctt catggcatgt ttccatccgt ggccgtatct t 281

<210> 3123

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557275H1

<400> 3123

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ttggctgcct cgttttttta acaaccttcc accaaaatgg ctgtgnntcg cgataactgg 120

gacttatggc aaaacgacca ccacctgttg attaaaagtt tgtatgaggc gatggggctg 180

cgcaccggta tgttgaactc ggttgcttca tatgtacatg gggataataa gatggacctg 240

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<223> Clone ID: 700557276H1

<400> 3124

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cttcagtatg tgatctatct tttttcaggg tgcattaata ataaacatat tgatgttatg 180

atataagaag aaaaatggag catgttttgg agaaaagatt tcctcttaat tcagaagatt 240

acaagttatc atgaagaagt tggatgaaggc gttagtgcct ccgta 285

<210> 3125

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557279H1

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agcagatatac gaggaggaaa ctccaccctc gggtttactaa ctctcccttg ttgtcaccca 120  
 tcgtagcaaa aaaagatgat gctggctcta tggcagtcag tccttaagag cacttgcat 180  
 aattgganmt gggtttgtcag gtcttttcag tttttcaaca atggcagcag ctgatgaagc 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557280H1  
 <400> 3126

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 ggctcctat ttctntctcc cagatgctta tcttcgtctt gggatggact taagtacgtg 180  
 attcacatga atgggtcaag cacgaangct ccagtcgcca ccattgggtat catgacnatg 240  
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<210> 3127  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557281H1  
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 agttctggag tttgtgctgg tgattgtgca aagcagcaag tggttgctgg agtgaattac 180  
 tacataacat tgggaagcaa agatggtgag ttaaaaatga gtataaagcg aagggtttggg 240  
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<210> 3128  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557282H1

<400> 3128

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 ttcctcaaag ccttgtagag agcagtaaca ccgttgctca gtcacctcag tggaagaatc 180  
 tgtaagggca acgaccattc acagtcgccc ccatccatgg cttcaacaac acgccctcat 240  
 cagtcaaaaa cttccanagc agcaggctcg ttcccagca 279

<210> 3129

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557283H1

<400> 3129

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 accaatgcat gtggcacatg ccaccaaann nnnnnnnnnn nnnnnnnnnn nnatcaggaa 180  
 agtgccttaa ggacacattg aagctagggg tgtgtgcaga tattctaggt cttgttactg 240  
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<210> 3130

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557284H1

<400> 3130

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 aggttcttcg cgacaacatt cagggttacg aaacctgcga ttcgtagggt agcgagaaga 180  
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<210> 3131  
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 <212> nucleic acid  
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 <223> Clone ID: 700557285H1  
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 cagctgagaa cggtggctgc aactgggac aaactgcact tgcgacccat gcagctgcaa 180  
 gtgagatcaa catgccataa ccttcaaaca caacacatac ttattnattt attgatacat 240  
 gtattacagc tatcaataaa taataagtat gtgttgtgtt t 281

<210> 3132  
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 <212> nucleic acid  
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 <223> Clone ID: 700557286H1  
 <400> 3132

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 ccaa atgttg cagagcctgc caaggggggtg tacaagatga gcctcttttg gtttctagtt 180  
 ttctctgcac atcttgcact agcatcctct ctngtnga at ttcaagatna atgataatcc 240  
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<210> 3133  
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 <213> Glycine max  
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 <400> 3133

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aatagacact actcttaggt atttatctta tcattaccgt tattatcatg agcactgaaa 180  
 aggagaaaaan nnnnnnnnnn nnnnnnnnnn nnettcactt ccgtcgagtc tgcaaggggtg 240  
 tcatggcctc gagaagattc ttctccgcga atcgcgtg 278

<210> 3134  
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 <213> Glycine max  
 <223> Clone ID: 700557289H1  
 <400> 3134

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 aggtcattga gcgcttgctc aaaatctcag cttgtaaaagt tacggctgtg gatagtggaa 180  
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 aaggtcattg agcgcttgct caaaatctca gcttgtaaag ttacggctgt ggatagtggaa 180  
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 atgtgcccgt actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacacaa 180  
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 tgtgtaagga ttttgaaatt caggtatgtc atgttcggaa tcagatgtaa ccttattcta 180  
 tacaattttg aattgtgacg aactgtttat tcttttgttt caatatcttt tacttgccctg 240  
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 accctccacc accaccgacg tttcttcttc ttccatgcaa atttctcagc ttctcccaca 180  
 cccatcttgg aagaagaact tcttcttcca acacccccac catcatccat gttgtagatg 240  
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 <212> nucleic acid  
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 tccagtgaat cgacccccca caccagatgg gccgaaaatg cccctgaaag ggaaccacg 180  
 cttcaagagc tcatcaacat caagttgatc gagaccggag agaaggagcg tctcatggag 240  
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<210> 3140  
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 <212> nucleic acid  
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 tggagcaatt gcataaaatt tttaaacttt gtggttcact tctgaggact attggagaaa 180  
 atcaaagttg cctcatgcaa caatatttaa gcctcaacaa ccctataggc gatgtgtttc 240  
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 aagccacaag gttgggcatc aaggcttcgc tgaaagagtt ggagtcgctg ttgtggccac 180  
 tgccgcgagt gcagtgtggt ctagcnnccg ccatggccat tgaagtgttg ctgggtgggtg 240  
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 gtacttggac aacaaaatgg atggattcta cattgtcca gcttttatgg acaagcttgt 240  
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<210> 3144  
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 <223> Clone ID: 700557305H1  
  
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g a t c c c a a g c n t c g t g g a a a c g a c a c c g c t t t c a c g a c c t c c t c a a t t c c c t c a t c c a c t

gatcccaagc nt cgtggaaa cgacaccgct ttcacgacct cctcaattcc ctcattccact 180  
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caagagactc gtcgtgccat tgaagacatc cacaatgtca ggtccaacaa 290

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<223> Clone ID: 700557306H1  
  
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agaaagcctt ttcaatctac ggcgacatcg tgaatcgaag gttatcaacg accgtgagac 180  
tggaagggtc agaggattcg gatttgtgac cttcgctca gagcagtcaa tgaaagatgc 240  
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<210> 3146  
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aattggtctc gacccaatat gaaaactagt gttaagatca ttcacgcaag gttgcatgca 240  
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<223> Clone ID: 700557309H1

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 tgtagtggtg acaaatgaca acagagagta tgtaaaaaga gaaactggtg tcatttgtca 180  
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 <212> nucleic acid  
 <213> Glycine max  
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 gcatccagcc cgacggcatg atgccttctg acccaccttc ggtgtagccc acgacgcntt 180  
 caacaccttc ttcagcgaaa ccggatctgg caagcacgtc ccccgtagtg tcttcgtcga 240  
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<210> 3149  
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 <213> Glycine max  
 <223> Clone ID: 700557312H1

<400> 3149  
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 ngtctnctca naaggngngt ttcactgacc tgggtcnaca gttcaaagta acaggagnaa 180  
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 tctttcanct catctgatgc atgaggctca gatctactgt acagagatac tgtagataat 180  
 cgatgagaag aacgcagatc cagccgcttc cgcttggtcg atcgctacag acgcttgtat 240  
 cggattattc agatgattca taagcagcag tctcctc 277

<210> 3159  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557324H1

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 aatgtgttgt tgggccaact cgatgacgag atactagtgt tgcaaagcat ttggaatcag 180  
 ccaatacaat nttttcattt gtttggtgga ntattggatt ctactgggta tcagctgggg 240  
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<210> 3160  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557325H1

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 gcacctgact ggataggatt tggtttcagt gcaaaccaca gccaggatat ggttttaatt 180  
 acacagaana ggagttccat gatgcattgg ataagctgct tgaggtgctg ggggtcaaatt 240  
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<210> 3161  
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 gcatcttgaa atggcttata atcttatcag cacttcgggt gtccttcaaa tacttgcaaa 240  
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<210> 3163  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557330H1  
  
 <400> 3163  
  
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 aaccatggct gaaatcgaaa ctaccgttcc agatcccacc caaatcgacg tcaaactctt 120  
 caatcgctgg agcttcgagg atgttgagtt aatgatatgt ctctggctga ttacattgga 180  
 gtgtcccat caaagcatgc tacatatgtt cctcacactg ctggtaggta ctcagtgaag 240

aggttcagga aagcgcagtg ccccatgttg agaggctcac ca

282

<210> 3164  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557331H1

<400> 3164

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taaggttgct attgaaccaa aaactaagct gatgttgaca agatggcaac tggtttaatc 180  
aagcttgcac aggaagaccc ttctttccac ttctcccgat atgaagagat aaaccagaca 240  
gtgattgaag gaatgggaga ttacatcttg aaatcatg 278

<210> 3165  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557332H1

<400> 3165

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gaagagacat tgtgatctct ctcaggggaa cttccacgtg tctagaatgg gcagaaaatc 120  
tcagggctca tatgattgac atgcccgcga cgatagctca gaagaagccc aaggaaagcc 180  
caaagtggag tgtgggttca tgagcttgta caaaacaaaa ggagcacaag tgccaagtct 240  
agcagaatcc gttgtagaag aagtgaggag actgatcgat ct 282

<210> 3166  
<211> 297  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557333H1

<400> 3166

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cgcccttcog tcttcgcaac ccttaacact ccttcttctc ctctctcttc atcttccttc 120  
 ccctctctca ttcaagacag gcctgttttt gctgccctgc ccccatcctc accccaactg 180  
 tgagagagga tatggcaaag gaatacgaga aagctattga aggacttcag aaattgntga 240  
 gggagaagag tgaactcaaa gcgacantgc tgaaaaagtg gagcagataa cagcttc 297

<210> 3167  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557334H1  
 <400> 3167

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 cagaaggatc ctccaacatc ttgcagtgcc ggtctgttca tgaagatatg tttcattggc 180  
 aagctacaat tatgggtcct ccagacagtc cctatgctgg aggtgttttc ctagtgacta 240  
 ttcatttccc tccagattat ccctttaagc cacccaaggt tgcattcagg acgaag 296

<210> 3168  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557336H1  
 <400> 3168

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 catatcaaag gatgtggttg tgaaaggctt acccagtcct agtgatgata ctctaatact 120  
 tgtgtgtgga cccccgggta tgatgaaaga atatctggag aaaaggccaa ggactgacca 180  
 caaggagagg tttctggcat cctaaaagag gctggatata ctgaacaaat ggtatacaaa 240  
 ttctgagaaa tttagttttc ttgctctgaa ttccaagcac ttgtcc 286

<210> 3169  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557337H1

<400> 3169

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 agatggcgaa catgtctttg gcgtcgctcg ctctttgcct ccttcaatga taccttcatt 180  
 catgtcactg atctgtccgg gagggaaaca cttgtccgca tcacaggtgg aatgaagggt 240  
 aaggctgaca gagatgaatc gtctccctat gctgctatgc ttgctgca 288

<210> 3170

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557339H1

<400> 3170

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 gaagagtacc actggagaag ggtagagtg ggggggtgcta ttcggattcg ggccgggtct 120  
 aaccgttgag accgtncacn cttcacagtg tcccttgagg ggataaatca tgctgatgag 180  
 gtgactagtg atttaagagt gatcaataag gaaccctcgg aaataccagg gaaagtttgt 240  
 tattattact agtttcattg tggatttatc gtagcataat gttgta 286

<210> 3171

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557340H1

<400> 3171

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 tcctgcttcc ccctccttgg ctggcaaggc cgtgaagctg ggcccatcag cccccaagt 120  
 cgggaggggtc agcatgagga agacgtcacc aagcaggcct cctccggaag cccatggtag 180  
 ggcccagacc gcgtcaagta cttgggcca ttctctggcg agcccccgtc taactcactg 240  
 gcgagttccc aggtgatacg gtgggacatg ctgggc 276

<210> 3172  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557341H1  
  
 <400> 3172  
  
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 tctttgtttt ntctgcgac attntccatt gggtggaaga aagtctcaac ctttagtcga 120  
 aagagcaagg ntctgagtga gtgagcgatc agtgtggtgg tgcgattatc tccganttca 180  
 ttccagcggg tcccgccggc ggngcgcacg cgtgaccgcc gacatcctgt ggccgaattt 240  
 gaggaagcgg ttctcgaagt cgtgctgga cgatgatttc gaggcag 287

<210> 3173  
 <211> 286  
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 attccgttgc caccaaagcc tctcgaggat caacgttgta catcgacgtg gtccacgccg 180  
 gctcggagga ggacaccaag ccgcttatcg gctcggctcg gctcaagctg gtggacattc 240  
 tcgacgacgt tggaatcggc gagcgcgtga ccgcacgctc tcgtga 286

<210> 3174  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557346H1  
  
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ccctttgccca agaaggattg gtatgacata aggttccttc tgtttttcaa gtgaaaaatg 180  
 ttggcaaaac cctcgtntct cgtactcagg gtaccaagat tgcttctgaa ggactcaagc 240  
 atagatggtt gaggtctcct tggctgatct tcaaggggat ga 282

<210> 3175  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557347H1  
 <400> 3175

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 tagttttgga aaccaagaat tcntgaagaa ggnnagcatc aacaagcagt tctgaaaatg 120  
 gagatcacca atgtcagtng tatgaggcta ttgcaaagca gaagttgccca aagatggcgt 180  
 ttgactacta cgcactctggg gcagaggacc agtggactct gcaagagaac agaaatgcct 240  
 tttccagaat tttgtttcgg ccacgtattc tta 273

<210> 3176  
 <211> 233  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557348H1  
 <400> 3176

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 gganggttgg agttccaaat ctactgtaa ctctccagtg cccttccttt tcatatcaaa 120  
 aatagagatt tcttagcatc caggatctgt taatttatgg tgccttttcc acacctagtc 180  
 tcacgtgcag cataatttat tagtaatttg gtacaagtag aatctagatc gcg 233

<210> 3177  
 <211> 263  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557349H1  
 <400> 3177

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 tgtgaggact atggaccctc ggcattccca gtggaggagg tgcataagat tgctgtgctt 120  
 gattaagatt ggctaatagca gacaggcatg ctgggaatat attgatcaga aaggaggcag 180  
 atggccagat aaagctcatt cctattgatc atggctattg tctaccagat aaatttgaag 240  
 attgctcatt gatggcttta ctg 263

<210> 3178  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557350H1  
 <400> 3178

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 atggcggacg ctgaaacctt cgctttccag gctgagatca accngcttct aagtctcatc 120  
 atcaacacat tccacacaac ata 143

<210> 3179  
 <211> 265  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557357H1  
 <400> 3179

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 aaaaaaaaga agaacaaatc tttgtttaat tttttgaagg aggttgaaga aagcaaaagg 120  
 ttgttgTTTT gttttaagtt ctttgaaatg gttttcatgt ctgagatatt attgttcctt 180  
 gaaaaaaaaa ttgaggaagg agagtgggag aaggagngat aagaaganga ggagaagaat 240  
 acctaccag caagcaggnt tagag 265

<210> 3180  
 <211> 117  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557358H1

<400> 3180  
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 ccttcataaa atcagagtat ttatgctgagt attanaaaaa aaancacaca nangggg 117

<210> 3181  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557360H1

<400> 3181  
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 tngcncctgt gctcctcac cgcacaanct tcgaaccaa cntccgccgt tggatntcca 120  
 tcgcttcaac actggaacgc accaatnggn gtgngancgt tctcaacgtc ttnnctgctg 180  
 cgacggcgan atgtgnaacg tngctgnntt gntccgcgat tncgacgtc ctggctttca 240  
 agaaagcagc ggagtcgatg gagaagctca tgg 273

<210> 3182  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557361H1

<400> 3182  
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 catgaatcgc attgatgaat atattgtttt ccagcctctg gattccgaac agatcagcan 120  
 aatagtggag ctccagatgg agcgtgaaa aacaggctca agcagaagaa aattgatctt 180  
 cattacacag aaaaagctgt taaacttctt ggtgtactgg gttttgatcc aaattttgga 240  
 gctagaccag ttaaaagagt gatacagcat tgggtgaaa 279

<210> 3183  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557362H1



<400> 3183  
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 cttcttcgct ttgccgccgt caatctcgac catctcacccg aaacattcaa catgtccttc 120  
 tacatgacct atcttgcaag atgnctgact atttccacgt tgccgaaggc cctggaaatc 180  
 gaatcatggg ttacattatg ggtaaagtgt aggggcaagg agaattcttg catggccatg 240  
 taactgcggt gaccgttgct ccagagtatc gaaggcag 278

<210> 3184  
 <211> 94  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557363H1

<400> 3184  
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 ccttgcataa aatcagagta tttatgcgag tatt 94

<210> 3185  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557364H1

<400> 3185  
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 tgatggcagc aacaagttct ggcactctta aagcaactcc tttcctaggc caaggcaang 120  
 gtgccaatgc caatgctctt aggggtgtgt ttccatggga actgggaagt acaccatggg 180  
 caatgatttg tggatatggac cagacagagt gaaatacttg ggaccctttt cagctcagac 240  
 cccttcatac ttgaaaggag attcccaggg gattatg 277

<210> 3186  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557365H1

<400> 3186  
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 ccgactttgt taattccgtt ggggggcttg tgaggaacct gaagcagaac aagctcatta 120  
 ctgtggcttc cttcgcaaca agcgctgatg cgccaacaac aaattctaca atctcttgta 180  
 cgcagaatat gctactttct ttgacactgt ggtgtttctg agctgggtag ggtttactcc 240  
 ttctcgcgcc aaccagttg cgagcttga ggagaagatc cttgccgtgg ccaa 294

<210> 3187  
 <211> 252  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557366H1

<400> 3187  
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 tccaccaaca aatactccga nggcacgenc ggtnnccnct actacngnng cnnccgantt 120  
 atcgaccaga tcganaantc tgcnngtcac gcgcctcca ggccttccan ntcgacgccc 180  
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 cgccgtcttc aa 252

<210> 3188  
 <211> 92  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557367H1

<400> 3188  
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 ccagccatgg cagtttnttc tgnatctgct tc 92

<210> 3189  
 <211> 120  
 <212> nucleic acid  
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 <223> Clone ID: 700557369H1

<400> 3189

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gtgttctgac tacttgnagn attcttacag agcacaccgt annnctctn catnaagtta 120

<210> 3190

<211> 201

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557370H1

<400> 3190

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caacttgctc actgtcattg ccgggtctgc tgagagagct ccaactctct aaatcattca 120  
tcttcagttt ttctccaatc ttaatgtaca atacatatca ctgagatatt attaaggcat 180  
tttgctttgt tccttggaat c 201

<210> 3191

<211> 116

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557371H1

<400> 3191

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<210> 3192

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557372H1

<400> 3192

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caccaaccgg tcggcagcga cgcagaggag atcagtggtg gtgaatgcag ccagcaaata 120  
tggtgaaggg gaaaaggtca gttatgacac aatggtagca atgcaaggag gaacttgatg 180

ttcgccacgg cggcggctgc tgtttgcctt tttgctgcag ggatggcatt ggcagatgag 240  
cctaaaccag gaacctcaga agccaagaaa aagtatgccc cggttt 286

<210> 3193  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557374H1  
  
<400> 3193

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cttcttcgct ttgccgccgt gcaatctcga ccattctcacc gaaacattca acatgtcctt 120  
ctacatgacc tatcttgcaa gatggcngac tatttccacg ttgccgaagg ccttggaat 180  
cgaatcatgg gttacattat gggtaaagtt gaggggcaag gagaatcttg gcatggccat 240  
gtaactgcgg tgaccgttgc tccagagtat cgaaggcagc agt 283

<210> 3194  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557375H1  
  
<400> 3194

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ctgctgcagc taaactcact tgctccttca ncctgatctc aaagaatttg ctcaaaaatg 180  
tgtcgacgct actaaaattg caggattcgc ccttgccacc tntgctctcg ttgtttctgg 240  
agcaagtgcga gaagggttgc caaaaaggct aaccttcgac g 281

<210> 3195  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557377H1  
  
<400> 3195

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tgtccatggt	ggccaatcgg	ttctgtgtta	gtaaccttaa	accagcctcc	aaaggactac	180
tatattgttg	cctcaacaag	atttacagag	acacctctca	ctacaactgc	tgtactacac	240
tatgcaaact	cttttttctc	tgcatgggga	cccgtg			276

aaatttattg	acgaattgga	acaactggag	ggaaaaaatg	aagcagagaa	ttatcaaatt	60
cgttctagaa	aagccaaacg	tgtagtaatt	ttgactaata	aatctaaatt	ttttaagaag	120
tacgatactt	ataatcctac	agagatactg	ataacgctga	aaaaaaaaaa	aatgaattgg	180
ctttaatacg	ttattcccaa	caatcggntt	ttcggngaga	cataatcaaa	ggatctatan	240
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1158

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557381H1

<400> 3198

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catgaagaat ggctcgcgcg ctaacaactc aacatgaagc tcggtgttca caccggcacc 180  
catgtcgacg cgcccgggtca cttttacgac aattantacg acgccggctt cgatgttgac 240  
tcacgcacct aacactcctc aatggccttg cacttttggt tgatgttcca 290

<210> 3199  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557382H1

<400> 3199

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aggtgagnaa caagataant ctatactcca accgatgcac taagtgggaa gtgttccaaa 180  
aatgtgtcat tgccattcaa cagccaattg ctctcttagg ggtcagtgtt acattggata 240  
atanagataa tagtcaggat gctgggaaga ctggnaagtt gnaattt 287

<210> 3200  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557383H1

<400> 3200

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gtctgctagc cntggaagtn gtgnggtggc agttccaggt ctgttaatgg tgcangtcag 180  
gggttcttcc agttccgtcg attggctggc aganagacgc tgagatgtct ttgagagacc 240

acgaggacgn taganatagt gagnctgacc ncattgatgg ttt

283

<210> 3201  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557384H1  
  
<400> 3201

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ggaaggccac attacgcctt tccgtcttcg caacccttaa cactccttct tctccttctt 120  
cttcattcttc cttccctctt ctcatnaaga caggcctgtt tttgctgccc ctgcccccat 180  
catcacccca actgtgagag aggatatggc aaaggaatac gagaaagcta ttgaagaatt 240  
cagaattgtt gagggagaag agtgaatcaa agcgacantg 280

<210> 3202  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557385H1  
  
<400> 3202

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cgccctgctg cttcaatgcc ggttccctct actacaagtc gtctttgcct gatgaagctg 120  
tttacgacaa ggagcgaccc ggagtncatg gccgaagcag ttgaatgctc cacttgaggt 180  
cgtggatcct gagattgctg atattattga gcttgagaaa gctaggcaat ggaaggggct 240  
agaatgatac cgtcagacaa tttcacctct gtgtctgtga 280

<210> 3203  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557386H1  
  
<400> 3203

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actcgtgacc agatgtgaaa ttggtgacag tctggaagaa ttcctcacia aagcaacacc 120  
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tcctcaaagt ctacaaaaac ggtcgctaga gaggctagaa ggcgtcgagg ttgctcctcc 180  
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 atccatccac tgtccggaag ccgctatgag aaaagctcgt gtctcagttc gtgcccgatc 180  
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<212> nucleic acid

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tttgaagaag gaaagaagga ggaagaaaat gatgaggcta tggatttcta tctgcaattg 180  
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 gacagcatgg ctgagaagat gcttgccaga gagatcaagg agggcgactc tggttatagt 180  
 gatgttgatn nnnnnggtaa tgtgattgtg ctcaatggta gcagcggagc ccccgaaatcc 240  
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 gacagcatgg ctgagaagat gcttgccaga gagatcaagg agggcgactc tggttatagt 180  
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 <223> Clone ID: 700557409H1

GenBank

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aaattcgagg tgctagggca gaagcngaag ggcgaggcac ggcgcatggg gctggcgcg 240  
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<223> Clone ID: 700557410H1

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ttaggaatgc atcccaaaga tctctagctt ctcaattgaa ttcaccatgt tccatgggat 180  
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<223> Clone ID: 700557411H1

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catcgtctgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gtgtcctccg acctgaaggc 180  
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 agactactac tacagatgac aaaaggcttc aaagcaccct gaagaggata gngtgaatg 180  
 ctatccctgc aattgaagaa gtcaacatct ttaaggatga aatagttatc cagtttttaa 240  
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<210> 3218  
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 gcgatttgag gaagcctttg aaatgtgagg cacccttctg agcaagaaaa ggtctttcaa 180  
 cccaaggtg gagcctgctt ttgtaacttg ttgagaaatc ttaaatttta aactgctagg 240  
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gaattgttgg tttcttcttg tacatcaata tctatagtag tccaaaanaa agngcngca 180  
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<213> Glycine max  
  
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gccggcgctt tgacggngca cgatcgccgg gttctgacgg cgggtgaacgc cggagcctcg 180  
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<213> Glycine max  
  
<223> Clone ID: 700557420H1  
  
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ctagattttc tgtcaagcgt ctctgcttcc tttcccaaac tcgtccgcac atttccgtga 240  
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<210> 3225  
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 gttacctcca gaacggagga acgccgccgt cgggatgctg caacggagtg aagagcctca 240  
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 aaatatgtct gcttgttctt gtttgatttg tttattttta ctcgaggaaa caaatcatat 180  
 aggaagaggg ttttgggttg gggggagcgc caggggacat gctcgagatc ccttgtggct 240  
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<212> nucleic acid  
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<223> Clone ID: 700557424H1

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tgttttgtgc tagcagtaat ttattgtttt taactgagtt tatctgctga gttggctgtt 240  
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<223> Clone ID: 700557425H1

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acatagttga aggaaccaca atattgaagc ttccacaagg ttccaatgat gtgcttctaa 180  
aaaatctcta ctttctctgt gacccttaca tgagaatgct catgaccaag gtggaaggcc 240  
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acatctgttt gcatggaact tgcattgtct gggatgaaat ttcagtatga tgtatttcca 120  
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<223> Clone ID: 700557434H1

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 ccaagccttc tgatgactat gactctggnt tcaanaagcn atcgatgag tcttctggcg 240  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557436H1

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 gtattgctaa tgcagatttc acaactgaat ccctcattcc cactggctct gtaaaaggaa 180  
 ttgataattt gacataatga atgaactttg tgattattga gttaaaaaan aannnnaaaa 240  
 aaaanaaaaa nggggngccc cccnnnngtn ggcncctccc ccnggggatt ttttncg 297

<210> 3238  
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 <213> Glycine max

<223> Clone ID: 700557437H1

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 <223> Clone ID: 700557439H1  
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aacggtggaa gagtgcaatg catgcagggtg tggccaccag ttggcaagaa gaagtntgag 240  
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gctcggagga ggacaccaag ccgcttatcg gctcggctcg gctcaagctg gtggacattc 240  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557444H1  
<400> 3243

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gaactctcag actgaagggc ctctgagaag accagtggct cctcctgtga gagaaccatc 180  
aagtattgtc cctcagccac tgaagnnttc acctccttct caggttccgc cccagaaggc 240  
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<210> 3244  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557445H1

<400> 3244

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cgaggcttcc tacgctccag tcccacctcc ccagcncana cctnanaaan tcgggttcca 180  
tggcctctgt gactgcttct ccgaatgtgg aaatgttgca tgacgtgttg gtgnccatgt 240  
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<210> 3245

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557446H1

<400> 3245

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cgatttgagg aagcctttga aatgtgaggg acccttctga gcaagaaaag gtctttcaac 180  
ccaagggtgg agcctgcttt ngtaacttgt tgagaaatct taaattttaa actgctagga 240  
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<210> 3246

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557449H1

<400> 3246

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agcttcagct ccagttcag ccttctttgg gaccagcttg aagaaggta ttgcctcaag 180  
gggtcccaac agcaagggtt ccggtggaag cttcaagatt gttgctgtag aagagaagaa 240  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557450H1  
 <400> 3247  
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 aagttgtgga acatgtcntt catgtttctg attgtaatat atattgccac aacattaatg 120  
 tgaattgttg gtttttcttc ttgtacattc aaattatctt attttaagtt atgaattctc 180

<210> 3248  
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 <223> Clone ID: 700557455H1  
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 cttcattgcc ccctcctcct ccatatcact actagggttat ttctgaagaa tataagccaa 180  
 taaaaaacgt tgttgatagc aggaagatgc acttcgcaat tgcacaagga aaacaacgga 240  
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 tctctataca ctctntcntg ctctctggcc tcanatgtgg acnccantcn canttcctac 180  
 ttccccaagn gnggcnanac cctcgaaatg gtgtgngagt cncnncctt naaagggang 240



ggnetctggnn ggtcaaccan ancgggttcg ttgtcctatg cgacgag

287

<210> 3250

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557458H1

<400> 3250

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atcatgttat ttgtacatat cacctttatt agtatgcaat tgtttgtgta catctttatt 180

ttgttcccag tttcatctgt tttcttttat catttcacgc ttttcgttct gttgcgtatt 240

taaattttta acaagcgatg taataaatgg ggtgttctat gtttt 285

<210> 3251

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557459H1

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atngcannag catatgggna nagcatctct cnttcngagg cagcatctng tggattgnnc 120

tggccgtttc aacaactttg gctgtaatgg tgggttgcca tcacaagcct ttgagtacat 180

caaatacant ggaggacttg agacagagga agcatacccc tacactggaa aagatggtgt 240

atgcaaattc tcagctgaaa atgttgccgt tcaagtcatt gactcggtc 289

<210> 3252

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557462H1

<400> 3252

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 tatcatgtta tttgtacata tcacctttat tagtatgcaa ttgtttgtgt acatctttat 180  
 tttgttccca gtttcatctg ttttctttta tcatttcacg cttttcggtc tgttgcgat 240  
 ttaaatttta aacaagcgat gtataaatgg ggtgttctat gttttc 286

<210> 3253  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557464H1  
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 ttgcatactg atcaacnata tgtgcacctt ggtaggacta acacttcaga gaatagttca 120  
 tttatntatc ntgctgaaaa tatgtccata gatagcatat ctttccctc tcattggaat 180  
 tcttcctcaa ggtcaaattg atatgcatcc tctagtcaca acattgttgt acctcctcac 240  
 cagtcagatg catcaggcac ttctaattgat catttngtgc attcg 285

<210> 3254  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557465H1  
 <400> 3254

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 gcgaggggtg gctcgactac ttgggcaacc caagcctgat ccacgcccag agcatcctcg 180  
 ccatctgggc cacacaagtt atcctaattg gtgccgttga aggttaccgt attgctgggtg 240  
 gccccctcgg tgaggtcact gacccaatct acccaggtgg cagcttcgac ccattggggc 300

<210> 3255  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557469H1

<400> 3255

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catggatgct anatctcgga tctcgccac acgtctgaca nataagaagt gtgtgccatg 180  
caatctgaag gaattgagac caatgagtga ggatgcagca cacantctaa tgccacaggt 240  
tgctgagtgg aatttggtta acgaanatgg tgctcatgaag c 281

<210> 3256

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557473H1

<400> 3256

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cttatgcagt gcaccagaca gagttagaag ccattctcac gggcttgaag gtggcttcag 180  
agatgaatgt taagaaacta attgtggagt cagacagtga ctctgtggtg agcaggtgga 240  
gaatgggggtt aagcccaatc acctgacta tgggtgctgtg gaact 285

<210> 3257

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557474H1

<400> 3257

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ctcccaaccc ggcgtgtcg gaagctgctc gtactgcgtc gcaatacttg ttctcttccc 120  
tgaatccatt ttccccaaaa tcgccactgg accaactcct cgtggacggg ttgcagcgcc 180  
aacagatatg gcaacaaatc gacctccaaa cgcagcctct attatccacc cttcgccgcc 240  
gcgtgaagca gctggtcgaa aatcccgaag agatttc 277

<210> 3258  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557475H1  
  
 <400> 3258  
  
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 tcttcttcga ggagcgtttc gatgacggat ggggaaatcg ttgggttaaa tcagattgga 180  
 aaaaagatga gttctggctg gggagtggaa ccacacctct ggccaatgga atggagacgc 240  
 taacgacaaa ggtattcaaa ccagtgagga ttacagattc tacgc 285

<210> 3259  
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 <223> Clone ID: 700557476H1  
  
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 gttcaagttt catgctgggt ttacagtga tgcacctgc ttgaatattt tcatggagtc 180  
 tggtagagccc ttacactct gctccttca agcttggtca gctgaatata aagccaggag 240  
 nagccaaaat caagccgtac atgctgatga taatgata 278

<210> 3260  
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 <213> Glycine max  
  
 <223> Clone ID: 700557478H1  
  
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tntgttaaaa gattgtgtgg tagagtgaag cttggagatt taaaaaagag aagaaatact 180  
atcaggggct tganngcnca atctgtcctg ttatgtggag ttcacgagca ttgaganta 240  
tttgaagnac cagttggggg cagacnctgg acagctacat agatncnag 289

<210> 3261  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557479H1  
  
<400> 3261

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ancactaata tattgatatt aatacatcgt agaccaaata agaacaatca aacagccttt 120  
ttctgtgtct cttccacaca acatacgnct cc 152

<210> 3262  
<211> 200  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557480H1  
  
<400> 3262

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ttcttttttg tgctacttac caaggcacac tcgaccgata ccgtttcttt caccttcaac 120  
aagttcaacc cagtccaacc aaacattatg ctccaaaaag atgctagtat ttcacacct 180  
ggggtgttac aactcaccaa 200

<210> 3263  
<211> 296  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557481H1  
  
<400> 3263

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ctccaccctc agaaacttta aggacgagtc aaagataggc cttctgagag ggttgccctca 180  
 tgctaattgat gagagactgg tgttatttga agcagacata tataaaccag acgagtacga 240  
 gccagcaatt caaggctgtg agattgtctt tcacgttgct actccctatg aacatc 296

<210> 3264  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557482H1  
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 atactttttg ccttgaaaac ttacaagata taccaacatt aaaaaaaga aaaagtatat 180  
 actatatgta caaggctact cccaaagtac tggtttttcc ttaaaaaaca atggtaaadc 240  
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<210> 3265  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557483H1  
 <400> 3265

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 tgcnagcctt ggaagtgggtg ggggtgggcag ttccaggtct gttaatgggtg nacttcaggg 180  
 gttcttccag ttccgtcgat tggcttggca gagagatgct tganatgtct ttgagagacc 240  
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<210> 3266  
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 <213> Glycine max  
 <223> Clone ID: 700557484H1

<400> 3266

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aaaatccacc ttccaaattt gcaatcactc ttagagagca cagaacaact ttggagcatg 180  
cggcganngt tgccattact gaaacatgat tccggtattg tggnaatggg agcgggtgtgt 240  
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<210> 3267

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557485H1

<400> 3267

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agacaatctg tggataaagc agagtttcaa gagtccagtg tggagaaaat acttaattta 180  
ctnnntnacc actgtgaaag tgaggaagag ggagtgcgca atgtagtggc ggagtgtttg 240  
ggcaaaaattg ctcttattga gcctgtaaaa ctcatccctg cactcaa 287

<210> 3268

<211> 218

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557487H1

<400> 3268

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ggccattcaa gtgctcttta ctgtgtatgc aaagatgggtg tgggtgatca agctcttcag 180  
aaagcaatag actatgcatg tgggtgctgga gctgactg 218

<210> 3269

<211> 285

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557489H1  
  
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 aaagcattgc aaagggaaaa ggagattggtt attcaaattc aaggactagt gatcgtggta 180  
 gaaagcaaaa ggagcgaaac tctggatttt ccagtgaatt caacttatcc aatcctagtc 240  
 gaaaagaagg aaaagaggac ttccagagag gtccttttg gggaa 285

<210> 3270  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557490H1  
  
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 attcagagaa gattgtacat ctccccatt gctactttgt aaatgattat aaacagaaaa 240  
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<210> 3271  
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 gccgtttcaa caactntggc tgtaatggtg ggttgccatc anaagccttt nagtacatca 180  
 aatacaatgg agnacntgag acagaggngg cataccccta cactggaaaa gnnggtgtat 240



gcagttctca gcngnnnatg atgccgttca ngacantgac tcggt

285

<210> 3272

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557493H1

<400> 3272

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aggttgtggt gttcattcta gttcaagcct tggtttacct taccctctcc aattcatcaa 180

acgtgttcaa caagaacatg aagaaatcta acagcttcag gccggcacgt tcggtgagca 240

ttcgccggat gctcgctttg atctctgatt ttccctccaga agaa 284

<210> 3273

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557494H1

<400> 3273

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ctaaggactg atatggcaca ctatgttgct gagttatcag aggcattctgt gaaagagcga 180

ggagtctttg ccattgcttt atctggtggt acctctcatt ggcttaatgg ggtatttgta 240

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<213> Glycine max

<223> Clone ID: 700557495H1

<400> 3274

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 cgaaaacaac ttcccaaacc agaaggaaca agacctacaa acaagactgg cttccttgga 180  
 cttgttggtgta aaaaggtgga taccatagaa tattgcaacg agaagattaa tgaacttgag 240  
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<210> 3275  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557496H1  
 <400> 3275

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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557502H1  
 <400> 3276

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 gctgttgagg gcatcctgtn aggggaattgg gaattgtgat cagcacatga tgagggtgca 180  
 ttgtgataac c 191

<210> 3277  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557505H1  
 <400> 3277

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aaaattaaac catgtctatt acaacaacac aagctttgac ccccttggtc gtcacacgt 120  
 aaaagtagaa gtagaaccac atttggcgcc aattccacct ccacaagctt ccccggtac 180  
 tccactctgc ctccaatctc ctctcttca agctcagtc cactncttcc aaacggaacc 240  
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<210> 3278  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557506H1  
 <400> 3278

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 aaaagtagaa gtagaaccac atttggcgcc aattccacct ccacaagctt ccccgctant 180  
 ccactctcct cgaattctcc tcctcttcaa gctcagtcac acttcttca aacgaacctc 240  
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<210> 3279  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557507H1  
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 ttgttagcac tttacgtggc ctcttgaaa ctggagacaa aatattacaa atcgaaggca 180  
 tcttttagtg gactttgagt tacatattta ataacttta agatggccgg gcttttagtg 240  
 aggtagtttc tgaagcaaag gaagcaggtt atactgagcc agatccaaga 290

<210> 3280  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557509H1

<400> 3280

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<210> 3281

<211> 192

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557510H1

<400> 3281

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<210> 3282

<211> 181

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557511H1

<400> 3282

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<210> 3283

<211> 188

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557512H1

<400> 3283

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<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557513H1

<400> 3284

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atcctccgtc tccggcgccg gtgatgactc cgcagtcgcg ttgtagctcg cgactgatct 180  
cgccgaagca gaggttcgcc gtctccagct tccggccgga attgcgtccc tgaattgttc 240  
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<210> 3285

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557514H1

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atggtgctct taagaactgt atgttggtat gtgaggcaat gtagattttc atcagaatag 180  
gctaaaacaa tgaacagcag atcattcttt gattcttaga gtttgatatag gatatatatt 240  
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 aaaggacaag cgcctcaggg ttaagggacc tgtaggatg cccactaagg ttccttnaca 240  
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 ctttgcatgg ggggctgatt cttgcagctt ccgttgtaaa tgggtggagct gccacagctt 180  
 taacgtacga tgaagccctg ggacaacctt tgagcctccc tgggtgctggg gactttgatg 240  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntggacatg accatcatgg tcatagcagc 240  
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<210> 3292  
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<223> Clone ID: 700557523H1

<400> 3292

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<210> 3293  
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<223> Clone ID: 700557524H1

<400> 3293

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 ccgatctctc ctccatctgg cccctcccg ctccctccga gccgcaatcc acggcgggtct 180  
 tcaatcagga c 191

<210> 3294  
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 <212> nucleic acid  
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<223> Clone ID: 700557525H1

<400> 3294

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<223> Clone ID: 700557527H1

<400> 3295



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 ctcgtcacnt cgcaccatga gcaaancctt gggaggaaca anagaagacg aagacgaaga 240  
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 ctctgtctct gtctcacaca aacctcgttt ctctccttct ggtctctccc tcccttcac 180  
 gcacccttct 190

<210> 3297  
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<210> 3298  
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tgaaatactt gaagaattgc aaatgggtcca agacccaaat tcagcactta tgaaccaaat 180  
ttctgagtcc cagtgtacgg aaacagagtt ggaggagaag atcatatcag ctgtggacct 240  
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<210> 3299

<211> 98

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557532H1

<400> 3299

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<210> 3300

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557535H1

<400> 3300

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ctgaagattg cagcactgaa ggcccctggg tttggagagc gcaagagcca gtaccttgat 180  
gatattgcca tcttgactgg aggtactgta atcagagaag aggttggcct tactttggac 240  
aaanctggga aagaggttct cggatatgcc tccaagg 277

<210> 3301

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557536H1

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 gggatatcaaa tatgagtcca aagaagagga cttgcagaac aagagccctt gtcctcaaaa 180  
 atgaaccggg ttcacaagaa aatcccgggt ctcatccaca atggcaaacc catttgtgaa 240  
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<210> 3302  
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<223> Clone ID: 700557540H1

<400> 3302  
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 ggatctcatt tgtgcaacca aggggactga agcttggctt aaaaaactcg agtggacagg 180  
 gcttcaaa 188

<210> 3303  
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 <212> nucleic acid  
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<223> Clone ID: 700557541H1

<400> 3303  
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 gggaatgc 188

<210> 3304  
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<223> Clone ID: 700557542H1

<400> 3304

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atagtgcacac aacagtagag agacgagttt attgctctgc cgctgctcaa tcaccaccac 180  
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<210> 3305

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557543H1

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tgcataatat ggttggcggt tgcacagttg tctactaggag gaagagtga ggcattacaag 180  
tttgatgtgg agtattgatc agaaagccag attgcttgga acacgttggt atgggaatca 240  
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<210> 3306

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557544H1

<400> 3306

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gtcagataaa caagaagaga agtcggagga aaatcctgta gagangtctc tgacgataca 180  
aagtcggaag acgtggagga taagaaaact gaggaggaag gttctaatac agaaaatgaa 240  
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<210> 3307  
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 <212> nucleic acid  
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 <223> Clone ID: 700557545H1  
  
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 gcggcggagg agtgctgtac ctgcacttcg tcgtcgtcga tcgggaggaa cagcgacgtg 180  
 tctccgaaa 189

<210> 3309  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557547H1  
  
 <400> 3309  
  
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 cctttaacaa ctgatattgc ccccgctat gatcacatca cctctgcaat tgggtgctgcc 240  
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<210> 3310  
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<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557548H1

<400> 3310

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 agaggaggaa ctcttcccat caaccccagg aaagttcaag atcgagcggg cccaccacat 180  
 gaaccgcaa ctct 194

<210> 3311  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557550H1

<400> 3311

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 ttttgtagat ttttctttta tgatgggtaa gtagggattn naatttgtaa ttgtnatngg 180  
 ccg 183

<210> 3312  
 <211> 185  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557551H1

<400> 3312

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 natca 185

<210> 3313  
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<212> nucleic acid  
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<210> 3315  
 <211> 284  
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 gagaagtgat gacatagcgg tgggtgaagaa cttgaagagg atccactgg ttgctgcatt 240  
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<212> nucleic acid  
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<210> 3318  
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 aaaccatctc ttgtgtccag ggccggttaa cattccggac cagatcatcc gggccatgaa 180  
 cagaaacaat gaggactacc gttctccagc aattccagct atgacaaaaa ctttgcttga 240  
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<210> 3319  
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<212> nucleic acid  
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<223> Clone ID: 700557561H1

<400> 3319

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cagctgtcta ggcatcgaac tctgatggac atatttgata aggtcctgt tgttgatgag 180  
gatgtatttg ttgcgcctag tgctccgctc attggagacg ttcaacttgg aagaggatca 240  
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<210> 3320  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557562H1

<400> 3320

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ggatttgcag aaggatcctc caacatcttg cagtgccggt cctgttcatg aagatatgtt 180  
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<210> 3321  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557564H1

<400> 3321

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atgcttgga 129

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<210>      3322
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<223>      Clone ID: 700557565H1

<400>      3322

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acttccaagc cttgtgttnan tgagnnnttn t                                   91


<210>      3323
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<223>      Clone ID: 700557566H1

<400>      3323

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cctctcataa caacagtgcc ctcaaaccgt ggcattgttg ggtcacactt ggtggaacct  180
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<210>      3324
<211>      282
<212>      nucleic acid
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<223>      Clone ID: 700557567H1

<400>      3324

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tgctttggag aattgaatcc gacagcactg caccttagtt atcattagaa gaaattaaga  180
aaagctacag aaactaatca tttgtattag tgtggaaatc atgtagaagc tgctgtgaag  240
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 gatgagaatc tcaaaatcct ctccaatgc aactcccatt acatcaaaca tgtggagtgc 180  
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 aatgagggca ctccaatccc aatgctgcag cccggatgaa gtgatatttg gtcctgattt 180  
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 caagaccacc ctcaaacc atccaaacct gttatttgtg atctaccatt ggctaggaaa 180  
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 aacatctttg gctttgagac cattcctgaa gagtgcgttg aagcaacaaa ggaatacatc 240  
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ccagcaatgg ccggtggttca tggcagttgg gtcaagcttg atccaaagag gagaagggca 180  
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gagag 185

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 gcgacgggtg cgtggacatg gacgagtttg gggagctgta tcagaccata atggacgagc 240  
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 gtctatgcct taatggtttg tagaatccgt tctggagata tgagcaagcc cacagattat 240  
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 actcttgga agcacaaaag ctctttctta gtgggaggaa actgaaggtg aacagtttta 180  
 cagcaccagt tggagcacga tccagcacta cagtgtgtgc agttgctgag cctgataggc 240  
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 nnnnnnnnnn nnnnnnnnnn nnnnncaatg ttgggactga gaattgggga actcacataa 180  
 tgggcacccc tgctgttcca agcagccacc cagataacaa aaaagcagnt tacaaagtgg 240  
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 cttattttac tttgatatt ccccggtgtg nagctggncg gantattcac atanggctat 240  
 ctgcagatgt gaagatcagt tangaagtct atgcnnnnnn ng 282

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gtttacttgg ggcgattcc attggtggaa g 91

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<223> Clone ID: 700557591H1

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ggcttgagga gtctgaaatc aagctcttta tttggagaat cgctaagagt ggcctccaaa 180  
tcaacaataa aggtttcaaa gacaaagaat acttcactcg tgaccagatg tgaaattggg 240  
gacagtctcg aagaattcct cacaaaagca acaccagata aggggt 286

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tttatacgcc cattccaccc tgatcagaag aattaaaata aataattaaa ttggatataa 180  
aagacttgta gtcacaaagg atcggaacac atcttggggg ggcaatttgt actcatcaat 240  
tgtttacctt ccataaaca cacataaagt tatgggttct tgctna 286

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 catccaatca gagaagccaa cctatcaagt gattcagcca atcaacggtg acccattcat 240  
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 gtatgttaag tcaattaagg aggaaattcg caaagttgtt gaacttcaag aagagcttga 240  
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ccacttatcc ctgccactca aataaatcat tctcaaattg tacacattat tgttcaagtt 180

caagattgtc aattcgtcat atttttagaa taaagtgtg atga 224

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<212> nucleic acid

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<223> Clone ID: 700557604H1

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cgtgtgcgct tcatgcctcc gcgaacgcct ccagcctctc cttgcagccc aggcccaata 180

cagaacgttc caccaattcc gacgtggata ataataatca tcgtcgaaga aagcccaagc 240

tcaagcccga agaaaaccct ctgccgctca tttcccgcgc tccgtg 286

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557605H1

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agggctgaag aagagacaag atcctggaag aaattaatta acattgcagt ctcagggtgct 180  
gctggaatga ttgcaaata tctacttttc aagcttgcac ctggtgaagt ttttgccca 240  
gatcaaccta ttgctctcaa attattggga tcagaaa 277

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<223> Clone ID: 700557606H1  
  
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<223> Clone ID: 700557608H1

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ttttaatctc atccttctcc gtttccttca aaacccaaac ttgaacttct tgtttcttgc 180  
tcgtggaagc aaatgacaac cacgcctgtg gtaactggtg ccttgtcaaa cgcggtcgga 240  
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aagtccatgg ctggcttccc caccaggaag accaacaatg acattacctc cattgctagc 180  
aacggtggaa gagtgcaatg catgcaggtg tggccaccag ttggcaagaa gaagtttgag 240  
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<213> Glycine max

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<213> Glycine max

<223> Clone ID: 700557613H1

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gagccccgaa tttcggthtgc ggtcggagct ccagthttag cagcttggac tctgtthtga 180

gtgatgattg gggagagctt ccgtthtaagg aggacgattc agaagatatg gtgttgtagc 240

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 agcaccagtt ggagcacgat ccagcactac agtgtgtgca gttgctgagc ctgataggcc 240  
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 ctctctcaat atcnagatcc agaagccgtt caaggagttt atcnagagat gcagannatc 240  
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tccatcaacc ttgatctcaa gaggggtgga aataacaggt ttttgaagac tgctgcctat 240  
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<210> 3366  
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 cagctcttct gcattgaggt ncaagaggga attcgaacaa aagctctntg ctgtgagggc 240  
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 actg 184

<210> 3368  
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 <223> Clone ID: 700557619H1  
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 ttgttggtta taactgtggt gtaggatgca gaacaaggaa gcaaaggaag aaagtgatgc 180  
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<210> 3369  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557620H1

<400> 3369

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 acagcagaaa gaagcaccgt cgtgtgcaag actcgccgtc ttcttcatcc tcttcgtcct 120  
 cggactccga ccaactcttcn nnnnnnnnnn nnnnnnnnnn nnnnnncgag aaggagcggc 180  
 gcagaaagag cgaggggaaag gatgagcgaa ggagtaagaa gagagacaaa gagcgcaaaa 240  
 agaagaagag gaggtccac gattccgatg actcctactc ttcgga 286

<210> 3370  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557621H1

<400> 3370

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 accattttcc atttgaaccc ttctggcagg tttgtcattg gagggccgca tggcgatgct 120  
 ggtctcaccg gccgcaagat catcatcgac acctatggag gatgggggtgc acatgggtggt 180  
 ggtgccttct ctgggaagga tcctaccaag gttgatagga gtggtgccta cattgtgagg 240  
 caagctgcaa agagcattgt tgcnaatgga cttgctagga nggc 284

<210> 3371  
 <211> 85  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557623H1

<400> 3371

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tatganccat ntgggtcttng cnnga 85

<210> 3372

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557626H1

<400> 3372

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ctttcaactg ttgctctgct tctgcacaca gagaatgggtg tgggtgggga aacagagatg 120

atctatctgt gttcacagca ccaactgtttc cctgcctcac ccttatgtac aagaacaaga 180

ataagcacac acacccgcca caacgctata gtcatacatt cgaagaactt cacaattttg 240

ttttcttggg tatggggagt ctgctcttga aaccgaggat gtatctc 287

<210> 3373

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557628H1

<400> 3373

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atggtggaca ggccggacat ttgttgtact ttttactaca cttgccatat ttgtacctct 120

tgcgagcttt aagcgaattg attcattgag attcacgtcc gccctttcag togcacttgc 180

agttgttttt ctagtcattg ccgtgggaat tgctgttgtc aagatattta gtggaggcat 240

tgtgatgcc agactcttcc ctgtcacgac tgatgtggca tcattcaga 290

<210> 3374

<211> 196

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557630H1

<400> 3374

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ttncaataan tccacaaaac ttccaggtag cnnttctttg aagagannag atagtgcacac 120  
aacngtagag agacgagttt attgctctgc cgctgctcaa tcatcancac cagcatggcn 180  
aggaacagct attccc 196

<210> 3375

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557631H1

<400> 3375

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gagtgcgttg aaccaanaaa ggactacatt aatggcgaac aatttagatc agactctaaa 120  
acagttaacc aacaagcttt cttttatgct agtgaacgcg aagtccatca caacgacata 180  
tttatattcg gcatagataa caccgtactc tctaatatcc catactatga aaaacatgga 240  
tatggggtgg aggatttatg aaaccttata tgatgaatgg gttacaaggg cgacgca 297

<210> 3376

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557632H1

<400> 3376

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atgataaaga tgctgggtgt ttgatatcaa ttgctgagta tggtnagag tacggcaaag 120  
nnaacccaat tagagttctc taccatggct ttggtcatna tgatgcatta gagattccta 180  
gaaggaaggg tcctangcca agactgtagc attcatattt aaaatgtgna agagattaaa 240  
gcttgatatng gttcccttca gtaacattca taatgtcact ataggtcagg ntc 293

<210> 3377  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557633H1  
 <400> 3377  
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 tccagaacct ttccacagcc ttcaagcccc ntctccgtcc t 101

<210> 3378  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557636H1  
 <400> 3378  
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 cagcngccac ctgcgtcctt catggggacg cgctcctgg aggcccactc cggggcgggg 120  
 cgggtgcagg cccggttcgg gtttggcaag aagaaagccg ccgccccgaa gaaagtttcc 180  
 agggggtcgg gctctagctc cgataggccc ctgtggtatc cgggcgcaa ggcgcccag 240  
 tacctggatg ggagccttgt cggagactac ggattcgacc ca 282

<210> 3379  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557637H1  
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 cggcaaacgg acggcgggcg cagcgctcgc ttctagcccc gattctgact tagaggcggt 180  
 cagtcataat ccaacgcacg gtagcttcgc gccactggct ttancnacca agcgcgatga 240  
 ccaattgtgc gaatcaacgg ttcctctcgt actaggttga attac 285

<210> 3380  
 <211> 185  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557638H1  
 <400> 3380  
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 tgctaaagat nctgggtggtt tgatatcaat tgctgagtat ggtnagagt acggcaaaga 120  
 aaaccaatt agagttctct accatggctt tggatcatatg atgcattaga gnttcnagn 180  
 aggaa 185

<210> 3381  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557639H1  
 <400> 3381  
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 ccttgatcat ggttctaggc accctgacat gaagcgacgt gcagaaaact gctatatctt 120  
 gacatgtaat gtatctttgg agtatgagaa gagtgaagta aactcaggct ttttctactc 180  
 aagtgcggaa cagagagaag ctatggttgc agctgaaaga cgacagggtg atgaaaaagt 240  
 taataaaatc attgaactga agaataaggt ttgttctggt aatg 284

<210> 3382  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557640H1  
 <400> 3382  
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 atctgaagcg aanacttctt ctgcgaacat ggaaagcaag tgcggaatg gttgccggtt 120  
 cgcataaacg gaacgagctc gttcggattc gccacgattc ttctgacagc gggctctaac 180  
 ccatgaagaa tttgaatggg caaatctgtc aaatatgcgg tgatactggt ggantaactg 240

ctacnggnga agngtttgnt gnntgcaagn ntngccttcc c

281

<210> 3383

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557641H1

<400> 3383

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aattcattcc tgaatcatatc tcatcaaaaa atgttggtga aggaaaaaga gcttccaagg 120

nagccttgca acaaaggctt agtttaaaaa aagctgatct tccttttagtg ggaattatta 180

ctcgattgac tcatcagaaa ggaatccatc tcatcaaaca tgccatatgg cgcaccctag 240

aacgtggtgg acaggttgta ttacttggtt cagctccaga tcctcgatc 290

<210> 3384

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557642H1

<400> 3384

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gatcaaagat gggataaaca ngtagtgcaa tccatttccc atctttgatc acttgagagac 120

cagaaacttg tgatcaaaga tgggaaatgg attgcagtac ctgttattcc caatgcattt 180

gttatanncc tgggagatca aattcaggtt cttagcaacg gaagcntcaa aagtgnccaca 240

tcacagggct gttaccaaca aattgagtcc acgggtgtcg atggcaat 288

<210> 3385

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557644H1

<400> 3385

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agcagcaaaa ttcagagcgc actcggctac atggcgccag agtttgctg caagacgggtg 120  
 aaaatcaccg agaaatgcga tgtatatggg tttgggtgtct tggctcttga gatcgtcaca 180  
 gggaagaggc cagtcgaata catggaggat gatgtgggtg tactatgcga catggtgaga 240  
 ggggcttga agaaggcagg gtggaggagt gcatgatgag aggctcca 288

<210> 3386  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557645H1  
 <400> 3386

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 tagtgacaca acagtagaga gacgagttta ttgctctgcc gctgctcaat caccaccacc 180  
 agcatggcca ggaacagcta ttcccgagcc ttctgatttc aagacatggg atgggcaaaa 240  
 acctatttct gtcttaggat ctacgggttc aattggaact cagacactga gta 293

<210> 3387  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557646H1  
 <400> 3387

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 ggnacaaaca agtggttctg agggactatg tgagtggttt tcctaaggaa tccgacatga 120  
 acatagttga aggaaccaca atattgaagc ttccacaagg ttccaatgat gtgcttctaa 180  
 aaaatctcta cttttctgt gacccttaca tgagaatgct catgaccaag gtggaaggcc 240  
 tcgacgtgtt tggcacctat acacctggnt ctccattaac agggatatga gtgtc 295

<210> 3388  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700557647H1

<400> 3388

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aatgctagaa actttgttca tccggccatt tctttacaca gagcacgaat aagtgtatct 120  
tgcgccctca gattgggtca tttctttgca gttagattaa caataaaaat gtgcttgaag 180  
tcagccaatg ttcaatattt gcaatcaaaa ggcttttata gtcataatag ccagccagtt 240  
gtctaaatat cttgcaccta tagtctatag atggggcatt ccttgtagct agg 293

<210> 3389

<211> 101

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557648H1

<400> 3389

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<210> 3390

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557649H1

<400> 3390

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acgaagagtc gtcttggagc tctgataaca actacggcca caagcgattc ccagcagcca 180  
tgcacatgaa caagcttggg gcttttgctg tggactctga tctctcaatg tcaaacaga 240  
agcataccaa gttaggagga gccatgcgca tgaacaggct tgctg 285

<210> 3391

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557650H1

<400> 3391

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ttcattattg gactatccat tccattgttc cagcagaaga ggaaacaata gtgttgaggc 180  
caattgcaat gcaaaaaaga agaacccttg gttagaccct ttgatgatgg ggaggatcct 240  
gagatggagt atgggttcctt gtttgcagat gggaagca 278

<210> 3392

<211> 184

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557651H1

<400> 3392

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cgtttgcttt tcaggccgag atcaaccagc tcctcagttt aatcatcaac accttctaca 120  
gcaacaagga aannnaaatc ttcgngagct catcagcaat gcctctgatg ctttgaacaa 180  
gatt 184

<210> 3393

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557652H1

<400> 3393

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cctcaacttc ccncgttctt cacttgcttc tcgaacttct tcctttttga agttattaat 120  
taatactagt ttcttattcg gtttctagat gtcttaggaa caggagcaca gcaaacacc 180  
cctctctttc aaagcacaac ctaagatgtc ttgttcttga tttcttgcta tctcaaattg 240  
cctctacaag caagaagaag tggagtctga ttgaacgctg aag 283

<210> 3394  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557653H1  
  
 <400> 3394  
  
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 tgatttctct ttgtagaatc gaatcgagtt aatttttgat cgtgtgagtg tccgatcttg 120  
 aaatccacaa caacaatggg gagaggattg ctcaacaagc tcgtctctng ctccctctcg 180  
 gtcgccggaa aatggcagca caatcaactc cgccgcctca acatccacga gtaccagggg 240  
 gctgaattga tgagcaaaca cggagtcaac gttccgagag gcgt 284

<210> 3395  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557655H1  
  
 <400> 3395  
  
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 cagtgaatgt tgtgcggaac cttagtcaaa aaacacattg gcgaatcaaa acccatctag 120  
 ccattagtca tttggatgta aataagatta ataacattgt tgctgacatg aggnaagtct 180  
 tagccaaaaa tcctcaagtt gagcagcaga ggttgcacag gagantgttt ntggacaaca 240  
 tanatcctga aaatcaggnn cttttgattc tgggtgtctgt nttg 284

<210> 3396  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557656H1  
  
 <400> 3396  
  
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 ccctatccat acttcgtatc ggtaatccat ttattcgtgg gaggggcgta ctgtttgggtg 180

agctgggccc tgggccttcc aaagcgtgct cctatagact ccaacctact gaagttgctc 240  
atccagtggc tgtgtgtcat gcattaggcc atgtgaccag caa 283

<210> 3397  
<211> 288  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557657H1  
  
<400> 3397

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tgtgaaatcc ccagtgattg ctaggaatcc ottgaggcaa gctgtggcaa tgggaaatgg 180  
gaggattaca tggtaatttt agtacaagat taataatttg tctgattttg aaattggaan 240  
aaataactnn atgannatga tgttgatat atgatatgat acttgaag 288

<210> 3398  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557658H1  
  
<400> 3398

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acatggacat taacgagatc gatgttcctt cattctttct ctgccccatt tcgtagaata 180  
tcatgaagga tccagtgcgc gtctcaacag gcatcaccta cgaccgtgaa agcatcgaaa 240  
catggctgtt ctggaagaaa aacacgacat gccccatgac caaa 284

<210> 3399  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557659H1  
  
<400> 3399

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ctatgtctat tgcaagcaag gcggtaagga agatTTTTAT taattacata aaacgtgcac 120  
gggcagctgg aaatcgtacc gagtctgcga aagaactgaa gaagatgata gcctcaacac 180  
cttagttgta actaatttgg tggaggacat taaaggggag tcaactgata tttcctctga 240  
agaacctgtg aaagaggact tacacaaact gacgatga 278

<210> 3400  
<211> 226  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557660H1  
<400> 3400

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gatggccacg ataggaggct tacgcgactc ccaaggctct cagaacagcg tccaaaccga 120  
ggccctcgct cggttcgccg tcgatgaaca caacaagaag cagaattcac ttctggagtt 180  
ttctaggggtg gtgaggacac aggaacaggt tgttgcgggg accctg 226

<210> 3401  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557661H1  
<400> 3401

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ctctcttagg tttttaaaaa acaccacgca aacagcaaga tggccacttc cgacagtaac 120  
atgctactaa attatgttcc agtttatgtg atgctccac tcggagttgt caatgttgac 180  
aatgtttttg aagaccaga tggccttaaa gaacagctct tgcagcttcg agctgcgggg 240  
gttgacgggg ttatggttga tgtgtggtgg gggatcatag aactgaaggg gc 292

<210> 3402  
<211> 295  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557662H1

<400> 3402

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 ttaaagacaa tcttatttgt ttatttctgc acgagaattc gaaccttgaa caacataaac 120  
 atgggaataa acacacgtac actagaaatc accgttatct ccggcgaaaa cctccgcgta 180  
 acggaggacg cgtacgtcgt cgttcgggcg gagtccttaa actgctgcac caccgagaacc 240  
 gccaaaggacg acggcaccaa actcctctcg tggaacgaga agttcctctt ggaca 295

<210> 3403

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557663H1

<400> 3403

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 aaaatgatgt gttgtggcta ttaaaaacag tgtgcaagat tttgggggct atcgaggttt 180  
 gttctttttt tcttacgttt gatttttaca gcaggaaatg ctctgaaaa tttgggtgca 240  
 ttgatgcaca agcatgagct gttggatgtg gatatgtaga agataat 287

<210> 3404

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557665H1

<400> 3404

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 tgaaaactgg ctatggtgag cgttcttcg aggtaaaatg cgcaagtttt aggcttgctg 180  
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 aggactacat taatggcgaa caatttagat cagactctaa aacag 285

<210> 3405  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557667H1

<400> 3405

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 caaccgggttc gggttctcta ctgcggcgtg tgcagtttgc cccccaata ctgcgaattc 180  
 ggatccgatt tcgagaaatg caaaccttg ttgatccaaa acgtccctga cctataccct 240  
 gatcttctca aagaagagaa ggaagctgat aaagttgctg acaaac 286

<210> 3406  
 <211> 269  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557668H1

<400> 3406

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 gtttgacaag caggcactac cagcagatct aattagaagg ggaattgctg ttgaagatcc 180  
 attttctcca catggcttaa agcttaccat tcaagactat ccttttgcca atgatggact 240  
 ccttctgtgg gatgctataa agctatggg 269

<210> 3407  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557673H1

<400> 3407

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gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca tggtagcgcc 180  
cagaccgagt caagtacttg ggccattct ctggcgagcc cccgtcctac ctactggcg 240  
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<210> 3408  
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cgctgctact catgttggca tgctccatcg tgcattgtct tcgttacta caagcaagaa 120  
tgagaagaaa atcaaactac aatcttcac caggaccctc tcttctcacc atcattagaa 180  
actctaaaca actctataaa aagccacagc agacaatggc caagcttgcc aaaacctatg 240  
gccccataat gcgtttcacc ataggccatc aaccaccata gtaa 284

<210> 3409  
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<213> Glycine max  
<223> Clone ID: 700557675H1  
<400> 3409

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gaggaagagg agcaatctcc agaaccgcac aagtcggagg aatctcccta cgaaatgttg 120  
cgcaacagca aggcttcctg ngagagcatc gtcgccgata tgctctccat taaanaagag 180  
ggtaaacc 189

<210> 3410  
<211> 286  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557676H1  
<400> 3410



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 cattttctcta tgagagggggc tggcgtcaaa ccttttctgt gtgggggtggg tttcctgggc 180  
 ctgagaaaga gtttgaattg atgaagggtt tcttaaagcc aatattggga ggaaatatca 240  
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<210> 3411  
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 <213> Glycine max

<223> Clone ID: 700557679H1

<400> 3411

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<210> 3412  
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 <212> nucleic acid  
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<223> Clone ID: 700557681H1

<400> 3412

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 gactgctctc 190

<210> 3413  
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<223> Clone ID: 700557682H1

<400> 3413

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3414 97 nucleic acid Glycine max

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aactggcgt 189

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<223> Clone ID: 700557683H1  
  
<400> 3414

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<210> 3415  
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<223> Clone ID: 700557684H1  
  
<400> 3415

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gtatatatttg ggaggcatta nagnctagc ttggtngctt gnnntgtgna tatatggnnc 120  
tgtatcaaag aggaaggcca nnagtccagt acatgcagaa antaatgggtg gtagtattat 180  
aaggacatca c 191

<210> 3416  
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<223> Clone ID: 700557686H1  
  
<400> 3416

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<210> 3417  
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 <223> Clone ID: 700557688H1  
  
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 cctatccata cttcgtatcg gtaatccatt tattcgtggg agtggcgtac tgtttggtga 180  
 gctgggccgt gggccttcca aagcgtgctc ctatagactc caacctactg aagttgctca 240  
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<210> 3418  
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 <213> Glycine max  
  
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 caagatgttg ggagtgttg tgggactttt gttggtgggg ttggctgcct ctgccaaagt 180  
 tgatgaactc ttccagccca gttgggctat ggaccatttc atccatgaag gagaactcct 240  
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<210> 3419  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557692H1  
  
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 cctgtaccat cctaccatgc tagcccaacc tcttctcgt tcccaagccc cagcgcatt 180

gacggaaacc acccttcttc ctttctcatc ccattcatcc gcaacataac ttccatcccc 240

gccaacctcc ctctctcag gatatccaac agcgccccg tnacccac 289

<210> 3420

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<213> Glycine max

<223> Clone ID: 700557694H1

<400> 3420

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gttaagacnc tcaactggtaa gaccatcact ctggaagtcg agagttcaga tacnatagac 120

aatgtaaagg ccaaaattca agacaaggaa gggatccac cagatcagca acgggtcatt 180

tttgctggc 189

<210> 3421

<211> 176

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<213> Glycine max

<223> Clone ID: 700557695H1

<400> 3421

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gcnnactgcy aaatgcccct cacacaccan cctcattggt tctctccaaa atccgg 176

<210> 3422

<211> 209

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557701H1

<400> 3422

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tctgcttct caagctaatt tatatttaaa ggagtgcggt gttatgttgt caggatgcaa 120

ttctacaatc tataaataat cagatagata atgtcaagcc cttgttagct ttggcgaaat 180

attgatttgg ggatggaata tgaaatoga

209

<210> 3423

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557702H1

<400> 3423

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gaatcaattc ttgtagcttt gattcgtttt cttttaatta gatttgcaaa cactactgaa 120

accgaaacct taaacccttg tgaataagac gaatttgttc ntcctttgat tagataagaa 180

agagtttagat ttagattcag ttcgtttacg cttntatntg ttgtcttcta attagatttg 240

ggagtataag tgaaacccta ggtcttatgg gaagttagtg aat 283

<210> 3424

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557704H1

<400> 3424

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accgcatgct agtgctaaga tggcatgtga tcaaacacac agattgntct ctactaactt 120

agatgaagtg agtcaagggt aaagtacaca caatagagga gtagctaattg attctcctcg 180

catccttaat gttcatgatg tgtatgaagt tccacaaact agtgaaaatc atgaagtcag 240

tgaacatggg ggaaaaaggt ttgagaaatg gagttctgat gc 282

<210> 3425

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<223> Clone ID: 700557705H1

<400> 3425

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 tttcaaaact ccaaccctcc gttttcagaa atctccattg tcacgccccca tcagagctct 180  
 atcttctctcc gccctcgctcc aaacatctan taccaaggcc actgaagacc aagggtgtgaa 240  
 gcctcaatgg aaggccacga tagacttcaa gtggataaag gataac 286

<210> 3426  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557706H1  
 <400> 3426

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 tccaaaaggg tctttctacg tctccgcctc gagcaccaag aaaatcctaa taatgggagg 180  
 caccagggtt attggtgtgt ttttgtctag gctcctgtc aaagaggggc accagggtgac 240  
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<210> 3427  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557708H1  
 <400> 3427

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 gnaataatgc nagtgtaaag atgagtttta gttcagtgaa ttgtaggcct ntagcactna 180  
 anaagtgagg aaagcacggt taagaaacnt ttagttgttt tcattttctg tttccacttt 240  
 ngttacaaga atattggtgt gtgtttactt na 272

<210> 3428  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557709H1

<400> 3428

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 cttatgctgt ggttgagatg ctccggtatt taatacttgt gntgccagat acttttgctg 180  
 ctctggattg ctttccttta ccacccctctg taatttcaca tacaatgaat gatgggagtt 240  
 ttgtactaaa atcaactgaa gctgcaggga agatatatta t 281

<210> 3429

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557710H1

<400> 3429

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 ccctcccttc agatcaacct tccaaagggc ctcatagcct caccgaaag cactaaactt 180  
 tccccgcga cagcaatcgc aggagcaata ttcacaacct tcggaacctg cgacgccgca 240  
 ttctgtgttc aacaaatagc cgacatagca gaaggcgaca acc 283

<210> 3430

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557711H1

<400> 3430

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 tcttcagagg atttccattc tgtcattgcc ttccagacct atgcagttgg aagcagtggg 180  
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 attggaagga nttcttgagg tgctggcagg tcgcaaag 278

<210> 3431  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557712H1

<400> 3431

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gggattcgaa ngcaacggcg tcgtttcttc gccgccgcaa gctctcatcg agagactgaa 180  
agactacggc caagaagacg ttttcgccct ctggtacgag tctccccga ggaacgcgag 240  
tttctcgtca aggacntgag agtttagatc tttcgagaat 280

<210> 3432  
<211> 281  
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<213> Glycine max

<223> Clone ID: 700557713H1

<400> 3432

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gtttattgct ctgccgctgc tcaatcacca ccaccagcat ggccaggaac agctattccc 180  
gagcctctga tttcaagaca tgggatgggc aaaaacctat ttctgtctta ggatctacgg 240  
gttcaattgg aactcagaca ctgagtatag tggctgagtt c 281

<210> 3433  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557714H1

<400> 3433

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acatcatccc cancatggac attgcaagac tattggcgcg gcggtggtgtg attgttacca 180  
tattcactac cccaaagaat gcatcacgtt tcaattctgt tctttctcgt gctgtttcat 240  
caggcctcca aatccggcta gttcaactcc actttccatc caa 283

<210> 3434  
<211> 286  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557716H1  
  
<400> 3434

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acttgttcct tcacacacag ctccccaagc ttcaacagga ctgagtgcaa actatattgtc 120  
ttctcaatcc cccattgcca ttgatcaagc atcacagttt aacagtggga gcttggtggg 180  
acagtcattt aaccatcaac cacttggtca aggagtacat gcttcacaga gtgctgtttc 240  
tcaaccgccc aaggacaagt ttgagacaaa atcgacagtt tgggca 286

<210> 3435  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557718H1  
  
<400> 3435

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ataccaacaa cactactcag ctgagcagtt attatatcgt actttcacat gaaagtgtca 180  
taaaggcaga taaaagcata tacattcaac acacacgacc ataaggctca agcacaaggc 240  
aatagtatga cttaaacggg gacacatttc agcaattatt cttaa 285

<210> 3436  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557719H1



<210> 3439  
 <211> 282  
 <212> nucleic acid  
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 <223> Clone ID: 700557722H1  
  
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 agactcgatt ccaagtgatg acctgttaac aaaaganaag ttcaaaagat acaagaggca 180  
 aaaggagttc atgtgaaggc aattcttatc taataagggt gtagttcgac ttgtgcaagc 240  
 ccaaggatat gattatatga agactcaaaa taaagtgtag aa 282

<210> 3440  
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 aagcgcccca ccaccaagta atatgggtta tatacgtgtt ccatatatac caagagagtg 180  
 gtgcgtgggt gtgaagaatc tatatattgc tatt 214

<210> 3441  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557726H1  
  
 <400> 3441  
  
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 actaataata ataattagga attcatattt cttaaattaat gtctaattct acattaanag 180  
 aatgggttact atagccatcg attcgtttta gttctatcaa ttctatatga ataaatggat 240

tggtttatttc aacaananca ngaaaatgaa natttc

276

<210> 3442  
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<212> nucleic acid  
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<223> Clone ID: 700557727H1  
  
<400> 3442

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tcgccatctc cggccc 136

<210> 3443  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557728H1  
  
<400> 3443

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aaaaaagaag gaaaagtggc tttcatccca tatatcactg ctggtgatcc tgacctttca 120  
accactgcag aagcactgaa attgcttgat tcatgcggt ctgacataat tgagctaggc 180  
attccatact ctgatccttg gcagatggtc ctgttatcca ggctgctgct acaagatctt 240  
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<210> 3444  
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<223> Clone ID: 700557729H1  
  
<400> 3444

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ctgtgatcnc gaagttggtt caatacctga aaaggcaaag tggaagtctt acagtaatca 180

ggaggtgtgg aaacaggtgc tgttgtttcg agaatcagcg tttctcaaaa gaggttctga 240  
tccaagcagt gaacaacgta gctggcagag tcagaaga 278

<210> 3445  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557732H1  
  
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ctgtcaatgt ttggagcctt gcctatgagt tatgttcctc cgtataatgg atatgcttat 180  
caggctccgg gaggttatgg cctcatgcca taccgcatgc caccaatgca gagtcaacat 240  
ggttaccata atgtgatgcc tcacatgaat caagtaaag cat 283

<210> 3446  
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<212> nucleic acid  
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<223> Clone ID: 700557733H1  
  
<400> 3446

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cacagtgcaa gggagaaaag gttgtgcagg agaaaaaagt ccttgaagtt attgtggaaa 180  
agggaatgca gaacgggcag aagattacat tccctggcga antgntgaag cgccagacac 240  
aattactggg gatattgtct ttgtccttca gcagaaggaa cat 283

<210> 3447  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557735H1  
  
<400> 3447

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 agcaacactt tgcagcaaaa gtctactcag tccatttcca aggtttttgg tttggaacct 120  
 gttggagcta aaaagggtcac atgctccctt caggctgac ttaaggactt ggctcacaag 180  
 tgtgttgatg ctacccaaat tgcaggattc gcccttgcca cctctgccct cgttgtctct 240  
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<210> 3448  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557736H1

<400> 3448

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 ctgcttctgg aagattcctt gcngcngctt annngattt ggatgcaccg canctcaagt 180  
 ggcaaaagat ggctcctgct cccgtccctc gccttgacgg agccgccatt cagattcggg 240  
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<210> 3449  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557738H1

<400> 3449

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 tctggataag cttggctcgg cagttaaacc tgaaaaaagc agtggggggac caaggagcat 180  
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<210> 3450  
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<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557739H1  
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 aagaggaagt tgcctagtgt ttgagatgtc tgggtgttctt ctttgggtga gttgtggacc 180  
 caaggagaac cccatctcca ttgttgggtct tgctggaaga ggtggcagaa gccagaggag 240  
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<210> 3451  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557740H1  
 <400> 3451

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 aaccactatc cttgtcgcaa attgtggaga acatagaaga cgcaccctcc ccagatgcct 120  
 ctcttctcca gagagtcctg agagtgatgg tgcgcagaaa gatcttcagt gcacaagaat 180  
 cagagacagg agaaccctct tcggcttgac acgagcctcg aagtggatcc ttcgacacac 240  
 gaaaatgacc ctagcaccca tgttgctgct ggagaaccac 280

<210> 3452  
 <211> 270  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557741H1  
 <400> 3452

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 aatcccaatt gctctggggc tcttgccgat gctnctcttc ttcattgett cttcctcttc 180  
 ctctcacctc gttcgtgctt ccgatgacgc cgacgacgcg atcttctacg agtcattcga 240

cgaggatttt gacggacggt ggattgtgtc 270

<210> 3453

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557742H1

<400> 3453

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gagtaatgaa agagcaacag aggcaaggat aggtgggtgt ggattggatc tgcctctaag 180

gcgcagagat ggccaggact atgccgctgc cgctgctggt agtggaacag cctcgtcagt 240

ggtagatggc aagacctgtc cctttctcag ccaag 275

<210> 3454

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557744H1

<400> 3454

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cataatcaga ttgggcaaat tcaaagtcac ccatttcaga accatgggtg anactcaaaa 120

cccacttccc aaaaccactc ctttcccaa caagtgtgaa cttcacttgc aacaagaatc 180

aatttttgca cggtaaaaac aggaacaggt tggatttcag gacttgggtct attgctggtt 240

ttgattatgg aaactttgaa gggcctcagt ctgtgcttg 279

<210> 3455

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557745H1

<400> 3455

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gccggaggag tggcggtgac accggcgaag agaggccgtc ccttcggcag cngtaacaac 120  
 agtgcctccg ccgccgcttc cgcccgcgga ttcggcggtt tccgtcaaac tccttggtct 180  
 tcccttcacg ttcacaactc tttgccgatc agaacaataa aagaattgtc ttggtctctc 240  
 aaagtgggtc gaagantagt gactgggcgt tgaata 276

<210> 3456  
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 <213> Glycine max  
 <223> Clone ID: 700557746H1  
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 aagcctgacg tggattgcac gtgcacgcgg gagattttcg tggagagggtc tgggtctcaca 180  
 ggctcattct cggaggagaa cttgtccttt cagaagaaga tccttgagag gtctgggttg 240  
 gngcagaaga cgtatcttcc gcccgcaatc ttgagtttg 279

<210> 3457  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557747H1  
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 gagcacacaa tttggccaag ttgcaatatt ataacttgac ccattcagca cgattactcc 180  
 atggtggatc agtaccnata tttggtcgtg gtgaaaatga ntaggtgaga ctcacgtacc 240  
 agtatgggac gctgatgaga gtgatgctgc ctcagat 277

<210> 3458  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557749H1

<400> 3458

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atattgttta cttataatct catttctatt gttgtgtata ttnatcattc tatttgaaga 180  
tctgtggtgc tggaaaagta aggcactggc taattttggt gttcctgaga ttgaacacta 240  
nataagtttc accttttagtt attacaatat tattg 275

<210> 3459

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557750H1

<400> 3459

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ggaagtgaga tcagttagca agtagtaggg gaggatttgg gagcaaagaa gaaagttttt 180  
gtagctggag ccaactgtag cactggcaaa agaatcggtg agcagttact ggcaaagggg 240  
tttgctgtta angctggggg tagagacatc gacaagg 277

<210> 3460

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557751H1

<400> 3460

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gtcttgccgc actctattg cagggtagtc ttgtagaaac gaggatggca attgtttggt 180  
tagaggatta gttgcttccc ctgatggaac cagagtgtga gagacatcca gggttgggtcc 240  
atatgctggt gaagatatga ttgagatggg taagga 276

<210> 3461  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557752H1  
  
 <400> 3461  
  
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 tcaggccgag ttctgatggg gggataaggt tgatgagttc atattgttag gtgctgttcc 120  
 atttcttatt gatgttcccc gcttaaagga gcttggtgtc cgtgggggtca tcacattgaa 180  
 tgantcatat gagactttgg ttccaacgac attatattat gctcatggaa ttgatcatct 240  
 ggtgattcct actagagatt actgttttgc tccttc 276

<210> 3462  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557753H1  
  
 <400> 3462  
  
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 aggccttccc tctctctcaa ggaactcttc ttcattcaga gttgtggcca gtggcaagaa 180  
 gatcaagact gacaaacctt atggaattaa tgggtggcatg gctttgaggg atggaactga 240  
 tgcattctggc aggaa 255

<210> 3463  
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 <213> Glycine max  
  
 <223> Clone ID: 700557754H1  
  
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aagcgcgtta gagcatngtg tgatattagt ggagnttntt ctanaatttg tgtccatgga 180  
 gaaaaattct cttgattata gtcctttgct ttctcctcgt ggtgatgaaa atggaagtga 240  
 gacaacngca tctcctcttg tgtcagctac taaangg 277

<210> 3464  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557755H1  
 <400> 3464

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 gggagggntt ntagcttcta gcttggtgct tgtgtttggt gtatatggnt ctgtctcaaa 180  
 gaagatgacc aaagggttcag tagtacatgc agaaagtaat ggtggtagta ttatacggac 240  
 atcatcagag aatagaaacc accatcaaga agtctc 276

<210> 3465  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557756H1  
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 ttctggagct ggagcttcag ctcccagttc agccttcttt gggaccagct tgaagaaggt 180  
 tattgcctca aggggtcccca acagcaaggt ttccggtgga agcttcaaga ttgttgctgt 240  
 agaagagaag aaagagattg aagagaccca gcagaccg 278

<210> 3466  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557758H1

<400> 3466  
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 cttcaaacc cacttttctt ctctgttgat acacattgat ccactcataa tacccaatgg 180  
 ccacacttgt tctgcatcag aatctgatcc atcaccact tctcagcacc atcagcagga 240  
 gcagcatccc aaagatgcct ggcttccaat cactga 276

<210> 3467  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557759H1

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 gaagctcggg ttcggttacg ctgtatttgg ctgcatgcta ctctggctgg tgttgaattc 180  
 tgctgtttcg atgagtttga ggtcaaaaag gacatgttat ggagctgtng tttgttatga 240  
 aggcttcaga taaannaaat ctcttgtttc t 271

<210> 3468  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557761H1

<400> 3468  
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 tacacgnnnc acccaagatc acantccctn tattccgcgc cagttaccag cacctaacag 180  
 catttccttc acaatccctn ttttctccta tcacccttct cgctatgcta atgctagaac 240  
 cctccgcgcc agaacctnct ccaaaccat tttcctt 277

<210> 3469  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557762H1

<400> 3469

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 gatttccgtt tgangctgga ctcttcaac caaaagattc aggagaccag cgtgaggctt 180  
 ctgcacttcg tgatgagggt gatatgctgc aggaagagaa tgaaagtatt ctagacaagc 240  
 tcagactcga ggaagagaga tgcaaggntc agaggccag 279

<210> 3470  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557763H1

<400> 3470

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 tactggaaga atatttcagt gtcaggcttt tggacgaggc attacagtgt gtggaggaac 180  
 taaaagctcc agcttattac cctgagtttg tcaaggaagc catttccctt gcactagata 240  
 agagtccacc atgcgttgaa cctggtgcaa atctttttg 279

<210> 3471  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557764H1

<400> 3471

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 tgccctcaag ttgaagggaa ttcaatacaa gttttttgaa gaaaatttgg tcaacaagag 180

tgaactgctt ctcaaataca accctgttca caagaagggt cgggtgtttg ttcacaatga 240  
gaagcccata gcagagtctc ttgtgattgt tgaatacatt 280

<210> 3472  
<211> 277  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557765H1  
  
<400> 3472

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acaattctga ctctgatact gatantcgt ctgatatgtg catggaagggt gctgatctgg 120  
ttatggttga ngccaaagag actagaaaag ctgctaagag agcaaggcct tcaagggaat 180  
ccatacacac tttttgttgg agactccaag gagtttctga agatgagaaa ggaagcctta 240  
tccaaaccca tgaatctctc tgatgacata ataccac 277

<210> 3473  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557766H1  
  
<400> 3473

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tctttaggca caacaagaca gaatcagggc attttgaatt taattgaggc caaatgggat 180  
gatattgttg ctcaaagcc tctcaagatt tggtatccag cactggaggg tgaggaatgg 240  
cgtataacca ctggctgtga cccaagaac acgta 275

<210> 3474  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557768H1  
  
<400> 3474

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gttggtggag tcatgacaaa gttgattccc agaaacactg ttatcccaac caagaaatct 120  
caggtgttca ccacctatca ggaccagcag actacagtct ccattcaggt tttcgaaggc 180  
gagaggagtc tcacaaagga ttgccgcctt cttgggaaat ttgatctgtc tggaattcct 240  
ccagccoccaa ggggtacgcc tcaaattgaa gtga 274

<210> 3475  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557769H1

<400> 3475

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gatcagcacc tgcatttttg ccatcaatgg tgacacagat ccaaattgaca ttacttctct 180  
aaaggttttg tttcaaagta tgaactcacc ttcccagcta aattggaatg gtgatgatcc 240  
ctgtggacag tcttggcaag gcatcacttg ctctg 275

<210> 3476  
<211> 254  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557771H1

<400> 3476

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cacaccacac cattctcttc tctctctctt tctntctatt ttcttcttct ntctctccgt 180  
cancgctgca agaactctt ctttccattc cttacgtatt caagatggaa ttgagggtgg 240  
tggcgaggga gaac 254

<210> 3477  
<211> 276



<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557772H1  
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 cacaaactca gcctctcctt ctttcccctt cgttcctacg ccgcctcctg gcgccacccc 180  
 cactccaact cgacccacgg cggagcncaa ccccaacctc ttogtctctg gtcttagcaa 240  
 acgtactact acagaaaggc ttcgagagga gtttgc 276

<210> 3478  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557773H1  
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 actatgggtc aataaatgaa aacgtgaaga agagtcaata tgctgtcaga ggtgaattat 180  
 accttcgagc ttctgagctt cagaaagagg gcaaaaagat tatatttact aatgttgga 240  
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<210> 3479  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557774H1  
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 caaggggaaa acagcagtga taattggaag aagtaaaatt gtgggggttac ccacttcctg 180  
 ctattgcagt agaggcacca cgcaacagtt cagcgtgtta cacgcgtata caaagaaccc 240

agaacatata ncttctgaag cagatattgt gg

272

<210> 3480

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557775H1

<400> 3480

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ccttctctct attcgacact gacggagacg gtcggatcgc tccgtcggag ctggggatcc 120

tgatgaggtc tctgggaggt aacccgacgc aggcccaact caaagccatc gtggctgaag 180

agaactcacg gcccccttcg acttcccccg attctcgatc taatggccaa acacattaaa 240

nccgaaccct tcgatcgcca actccgcga 269

<210> 3481

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557776H1

<400> 3481

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cagaggctga ccccttgaag cgggtaccat ttgaaaaacc tcagtttagt ctcagccaga 180

ttaagaaggc cattcnacct cactgtttcc agcgcctctgt tctccgctca ttctcctatg 240

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<212> nucleic acid

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<223> Clone ID: 700557777H1

<400> 3482

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 tgtttctgac taacaattct ctaagtggac caattcctga ttggatactg agcataaaac 180  
 agcaaattga tttatctttg aacaatttca cnaagacttc tgcanataat tgccaaaggc 240  
 cggatctgaa cttagcttca agcctctctc gca 273

<210> 3483  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557778H1  
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 gcagaaggat cctccaacat cttgcagtgc cggctcctgtt catgaagata tgtttcattg 180  
 gcaagctaca attatgggtc ctccagacag tccctatgct ggaggtgttt tcttagtgac 240  
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<210> 3484  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557779H1  
 <400> 3484

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 gaagaaaacc tggaaacacc cgacatnnaa tcttcaacac aggagttggg cncgtagac 180  
 actgagacac cactaatcca ttgaagttct tggggacttt tactgtttca atcatcaatc 240  
 aaagttgcat gatt 254

<210> 3485  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557781H1

<400> 3485

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gaaaaccacc cactccaact ccaaccagat tcagcgtaa tgctctgttt ggtgattggg 120  
gatttgggaa tagaacaagg aactcccttc agcagcaatt cacgttcact cttgctgata 180  
gtaaagtgat aagcgtgtcg gttgtttctt cgatctcaga tgttgcatcg agcgaatggg 240  
acgcttgtgc tttggatgag actggccctg acaa 274

<210> 3486

<211> 204

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557782H1

<400> 3486

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cattctctct gagatcgcg aaaaaacttt ttttgagct gcgatactgg ctatgcgaca 120  
cccaagacgc ctagtcttat cnccgttgct tatcggtttt gattgtgatg accattctct 180  
ctgttcttgt tggctgggct gctc 204

<210> 3487

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557783H1

<400> 3487

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ccttttcttc caattgcaga gtcaaagttt aaggcctaag ttctctcagc tntcattcan 180  
cccanttcca tcatcaantt cttccttttc ttcaccccggt acattcacaa ctctggccct 240  
cttcaaattc aagaccaaag ccgctctctg ta 272

<210> 3488  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557784H1

<400> 3488

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 ggccaagatc caggacaagg aaggaattcc cccggatcag caacgtctca tcttcgccgg 180  
 aaagcagctc gaggacggcc gtaccctcgc cgactacaac atccagaagg agtcaaccct 240  
 tcaccttgtn cttcgtctcc gtggtggcat gca 273

<210> 3489  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557785H1

<400> 3489

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 agagttcaag cggaagttgg accggatggg ggagataaac gagaagatta ttgctgttgg 180  
 ggagagtgat gacatagcgg tggtaagaa cttgaagagg atcccactgg ttgctgcatt 240  
 ggtgtctgaa ctcttggaac catatctaata gcc 273

<210> 3490  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557786H1

<400> 3490

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 gtgaagcaag cctctgcttc cccaacgct aacgcactca cttccatcct cgtccaagcc 180

acttctcacc ccaacgtctt ctctttctct caatttctcg cctccctaa cttctacag 240  
cttgaagcaa ctgagaattc tacttatctt gat 273

<210> 3491  
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<213> Glycine max  
  
<223> Clone ID: 700557787H1  
  
<400> 3491

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agggggaacag caaaatttaa atatagctca aaatatttgt totatctag aacaagttga 120  
tccaattaga accaactatt ggatttggcg caagagcaga ctctctctat cagcttagta 180  
atcaaagtaa ttaaaggaca agtctgtgtc atgtgtactt tatacctagt ttattgaaag 240  
tggatgttta tttttttgtg atgttgcac t 271

<210> 3492  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557788H1  
  
<400> 3492

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ctccaatatt gctngtgggt agcactcaca aganacaggc tcaactacca gacaaatttt 180  
ccattcccg catctcctcc aaacctacgt accccagata ccctaaattc gattcataca 240  
cataacacaa cacaacctcg ttccttgctg ac 272

<210> 3493  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557791H1  
  
<400> 3493

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aagatgttgg gagtgtttgt gggacttttg ttgggtgggt tggctgcctc tgccaagttt 180  
gatgaactct tccagcccag ttgggctatg gaccattcat ccatgaagga gaactcctca 240  
aactcaaact tgataactat tctgg 265

<210> 3494  
<211> 269  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557792H1  
<400> 3494

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aggagaagga gaaggattcc aagaaaaaga agangatcaa ggaggtgtct catgagtggc 180  
aactcatcaa caagcagaaa ccatttggct gcgaaancca gaagagatca ccaaggatga 240  
atacgctctt ctacaagagc ctcacccatg 269

<210> 3495  
<211> 270  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557794H1  
<400> 3495

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accgganttc cgccncgaga ttcccgcga ggaagttgaa gtttccgacg atgacctcca 120  
attcgtcaag gagaaccgag ctatgcctct tgtttccacc ttggacaccc gtncaatcac 180  
caagcatgtt acacgggttg ctgatgcaa agacgatgca ttggagaaac tttatgagaa 240  
acgcatgcaa aagaatgctc tcaagaaaga 270

<210> 3496  
<211> 274

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557796H1  
 <400> 3496

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 nnnnnnnnnn nnnnnnnnnn nnnnngaagt ggcattgttct gacatgggtg agttggagct 180  
 gctaccacgt gacatcttga tgcacattct gagacttttg ggtccaaaag aggctngcaa 240  
 agttgagtgt ggtttgcaag gctttgagat ccct 274

<210> 3497  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557802H1  
 <400> 3497

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 actgatctna nctcctcgn cgccttcatn ttctacagct tcnacaactn ntatctnatt 180  
 gttgaatccn ngaatnaaac cctanttcca antttcccta accnanatng nanccaatnn 240  
 tcncccaatt tcanttttgt gatnaaggct ctaggggttaa anagnntnga agngnt 296

<210> 3498  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557803H1  
 <400> 3498

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 catctcaata tgatgttagg ggatacccaa caattaagat tctgagaatg ggggaaagaa 180  
 tgttcaggaa tacaaaggct cccgtgaagc agatggcatc gttgactatt tgaagaacca 240



aagtggctctg cttcactgaa tttaaactctg ctgatgaagc tangctttnc attggtgaaa 300  
na 302

<210> 3499  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557807H1  
  
<400> 3499

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aaggagctgg ctgatgtaac atttgaggag ttgcagaaag ctcgatcgan tnggacacat 180  
ggcatttttc cagaancccc aaagatgaca aanaattaa angggccaan angnantang 240  
ccaatggagg ctantannga agaagccagt ttctgggntt acngaggtca tccaagctcc 300  
aaaganggtt gtc 313

<210> 3500  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700557809H1  
  
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tncggcgttt atcgtaccca cttcgaggac tccgagggtt caatgctcgt tgctcttacc 180  
aaccacccca tcattctgaa tctcagaaca accataatgg gaggtcattt tccttgaagc 240  
agtgtgcgat atctattgca ctggcagttg ggttaataac aggagttcta cattggatgg 300  
ncc 303

<210> 3501  
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<212> nucleic acid  
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<223> Clone ID: 700557810H1

<400> 3501

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gtctgagtgg gtgaaggac aaacacttcg ccaaccttct gctgcatcag ttgtgagatg 180  
caacccacc acccatcca ggccaccca tcagagctgg ttcctatgct gatgagctcg 240  
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<210> 3502

<211> 236

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557811H1

<400> 3502

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gtgtgttgtg tatgttgtgc aagacctgga acttcacctt tctacgtacg tgtgctgtta 180  
ggatgcagtg tgcttgatga tgcttnatga atatgcagtg tgctttttta agtcta 236

<210> 3503

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557813H1

<400> 3503

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catgatttat ttggttttca taattaaata ttttgaacat tccgaaccga gtttaggagt 120  
aatatgtttt tatgcaacga ataacgaaga gnatcataca cctgcaaagt atctctacct 180  
ttctatcacc tgatctttca ntttatctct ctcttcacac agatatttca ctttctcctt 240  
gtncctcnna tttcccctgc ctgnntaccg gcctacaccc aaaaatgtgt gaataac 297

<210> 3504  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557814H1

<400> 3504

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 aacatcatcn ctggaaatgc tggctatgct ctgaagatgt ccctcatcta tctaactaca 180  
 tccctcacct cactacatat cgtaatccat tgcaagacaa tccttcctat tcagttgttg 240  
 aggagcattc tgttgatgtg gatgatacta ttgcgcaaag gtagttgtac ataagaat 298

<210> 3505  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557815H1

<400> 3505

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 cggctgcgga ggctgcaaga tgtaccacaga cttgagctac actgagtcaa ccaccaccga 180  
 gaccttggtc atgggagtggt cacctgttaa ggctcaattt gaggggtgctg aaatgggtgt 240  
 gcccgctgag aacgatggct gcaaagtgtg accanactgc tcctgcaacc cctgcat 297

<210> 3506  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557816H1

<400> 3506

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attggaagat ctaacaggaa caggcttctt acnagccgcc caactgtncat catcatcagc 180  
ctagacgcac caccaaaaacn gcngncgacg ccgcngnngc cgngcnann aaaaccgcca 240  
ccacnagaac cgcnataacc gccgccacca aagcgttctg gcgaccggaa tcgaagg 297

<210> 3507  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557817H1  
<400> 3507

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ggatggattc tttgactacc tcagaggact tgactgctct gatgttgagg tgtatgctat 180  
tcctgagggg acagttgttt ttcccaaggt tcccctgatg agagttgaag gtccagttgc 240  
cgttgttcaa ttgctcgaaa caccttttgt gaatctaatt aattatgcgt cattagtttc 300  
tac 303

<210> 3508  
<211> 298  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700557818H1  
<400> 3508

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cgttttgcta gagagaactt ccaagtttca aattagctaa tgctgtagta gatctgaagc 180  
tattcctcca gagtgggctg aagctgaaca aatttcatag gcaaatgaaa ggtctgaaag 240  
acttgagcta caatgaagga gtggcaggaa caaatcaga agacacagag gagngcta 298

<210> 3509  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557819H1

<400> 3509

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cngcagcagc nttngnctct ttctcngaag caactcgnag ttcccggact nactnaccgc 180  
ntttatcgac tctgcnaccg gccaccgcat ctntacggc gagctctcca caggcgcnaa 240  
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ntctc 305

<210> 3510  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700557820H1

<400> 3510

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agctcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct caagggctnc 180  
caacagcaag gtttccggtg gaagcttcan gattgttgct gtagaagaga gaaagagatt 240  
gaagagaccc agcagaccgg caaggacaga tggaagggct tgctatgata tctcagccgc 300

<210> 3511  
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<212> nucleic acid  
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<223> Clone ID: 700557821H1

<400> 3511

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actttgaaag tggacgagaa aagtgatgtg tacagctttg gcgttggtgct gctggagctg 180  
ataatagggg ggaagccagt gggagagttt ggagacgggg tggacatcgt tggatgggtc 240

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<210> 3512  
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<213> Glycine max  
  
<223> Clone ID: 700557822H1  
  
<400> 3512

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atatgagtct aaagcagtat caatgggact tagatctctg aagcagacaa ataactcataa 180  
tggaactaaga attttgaacc cgggtggatga gctacttaac agaaccctcaa ttaaaaccaa 240  
tgcaagtcaa gctatgagga agggacctca aggcagaatg ccaggctaaa aggcngatca 300  
c 301

<210> 3513  
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<212> nucleic acid  
<213> Glycine max  
  
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<400> 3513

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gatttcttcc accgcgcgaa ggcggtgcgc ctccgcagcc accacgacaa gtacctcttc 180  
gcggaggagg acgaggagtc ggtgacgcag gaccgcaacg gtcctcnaa aagcgcacgg 240  
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<210> 3514  
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<223> Clone ID: 700557824H1

<400> 3514

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 anctaactgt aaagagtacc taagccagac cctagagcca ggggacatat ctgcaactag 180  
 ctttgatgat gaagaggtca caagtgatgg agaatatggt gatggacagg actggggcag 240  
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<210> 3515

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557825H1

<400> 3515

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 gtcttntcaa tcaactcccca cctttggaat tcaagggttt gagcaaggag gaggaagact 180  
 cattgctagg gcaagtggaa atatggaggt acatgacatg cttcacggac tccgtggcct 240  
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<210> 3516

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557826H1

<400> 3516

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 ttaggaaata ccagaagagt accgatcttt tgatcaggaa gctccccttc cagaggctgg 240  
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<210> 3517  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557827H1  
  
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 cttganaccc tanntaccaa gcaatcccca agagtccaaa tatatngata ccatgacaca 180  
 atcatggaaa acttctctga gaganctgaa tggctcttga aggaagtacc atggaaggcc 240  
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<210> 3518  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557828H1  
  
 <400> 3518  
  
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 ccttgtcagt ggattgaagt ggggtggatga ggtcataact gatgctcctt atgcaattac 180  
 cgagcaattc ttgaatcgtc tcttcatgaa tataaaattg attatgtcat acatgggtgat 240  
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<210> 3519  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700557830H1  
  
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 gttcataaca aggcaaggag caaagaggga cttaggagtg cgggtggattc gagaattccg 180





ttggtgacta ctacttggat gagctggtgg atcgcagcct ggtgcaagtg gcgagtagga 60  
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 cagagagcaa atcctgtaag tttttggagg tttgcacgga ggtaaacatt gatactctat 180  
 ccttgagcaa tctctgtaga ttgtccttgc aatgcaaagc acggcctaata atctgtacaa 240  
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 gt 302

<210> 3523  
 <211> 136  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557834H1  
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 cgcttctgct ggcggc 136

<210> 3524  
 <211> 301  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700557835H1  
 <400> 3524

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 ctctggcaaa gtatactgct ggtcaagtgt attactaccc agctttccaa tcagccattc 180  
 atggggagaa attgagacat gaattgagga gagaccttac cagagaaact gcatgggaag 240  
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 g 301

<210> 3525  
 <211> 300

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557837H1

<400> 3525

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 tcgcggcggc aaaggagcgg cgcaaactcg gtccggtgcg ctgacgtaag cacggtcacg 180  
 agcgagaatc agcgagtgc ggtgagtaac aggagcgatt cgctggagat atgccgcgtg 240  
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<210> 3526  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700557838H1

<400> 3526

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 ctagcaacgg tggaagagtg caatgcatgc aggtgtggcc accagttggc aagaagaagt 240  
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<223> Clone ID: 700557839H1

<400> 3527

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 agagaattga attttctaac ttccatactt gctgttcgca tgaatagaca aagactcatg 240  
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 ggttattggc tcaaggggcc ccaacacaaa gatttcctct ggaagttcaa gattgttgct 240  
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<223> Clone ID: 700557846H1

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 cagcggagca tggnggcggg gacaatggcg atgcggccgg tgnngcggtg atgctctact 240  
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<223> Clone ID: 700557847H1

<400> 3534

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 caacagcaag gtttccggtg gaagcttcaa gattgntgct gtagaagaga agaaagagat 240  
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 <213> Glycine max

<223> Clone ID: 700557848H1

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<210> 3536  
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 cgggtgaaggt cgttcaactc ctcaaatccc aaggactgac acgtgtcaaa gtctacgaca 180  
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 gttacctaac gaggagagag ctctcgttct cttnaagct ctgctcnatt ccccttcntc 240  
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<210> 3538  
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 <212> nucleic acid  
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 aattcatggc aatcacacaa actactaagt tcagggttcag gaaacgggtga catggtaccc 180

cattttgttt tcctggcaca tatagttgat gtgtcatcca gtatgcatgc tcaattcgtc 240  
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<210> 3539  
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aagagcagtt cattgctccc aaactcagct ccaagatcat gaagcaggcg tgatccagca 180  
gaaggaggaa nagaaggagg aaacgcacga naacaacgcc gccggaatt tattcgaaga 240  
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<210> 3540  
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ggtactacgt gtggccactt tgggctgatg aaggaggctc aactaggcc aaacaaggaa 240  
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<210> 3541  
<211> 298  
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<223> Clone ID: 700557855H1  
  
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 caatctctgg accccaagaa aatctctgat tcttcttccct cctctggcag caggagtcaa 240  
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<210> 3542  
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<223> Clone ID: 700557856H1

<400> 3542

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 atggtaacaa aagaagttca tcgcaagttc aattatcaag tgatacatca aagatttggg 240  
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<400> 3543

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 taaaacngcc ttggaaggta natatgtgga nccagggcct ggtggtgacc caataagaaa 180  
 tcnacaagtc ttgccancag gannagaata ttcatgccct ggaccncnaa tctattccta 240  
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<212> nucleic acid  
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 agataagggg ttgatcaggt tgttggtgtc catgggagaa gcattaagaa caatttcctt 180  
 caaagtgaag acngntttctt gnggtgganc acaatgngtn aatacttttg gggncgngca 240  
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<210> 3545  
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<223> Clone ID: 700557862H1

<400> 3547

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cacatatgtt atattgggtg atgggtgtca aatggaggga atttcaaag aagcatgctc 240  
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<210> 3548  
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<213> Glycine max

<223> Clone ID: 700557865H1

<400> 3548

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tcgtcacctc ctctgcttct ccaccgggtt cggngccgtc tgtgggtaac attcatnggc 180  
ggcatcatca tgtntaanaa tcngccgcng atcagnttgg gaactgcaaa gcnagatgnt 240  
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<210> 3549  
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<212> nucleic acid  
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<223> Clone ID: 700557866H1

<400> 3549

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98

<210> 3550

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557867H1

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atagatcctt tgcttcattg ccatacacia caaggttctt cttgctccca ggc 293

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gaagcgactg tctgagaagg ccaaggctct cacggacaaa gatgcttctg ctgctgctca 240

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<223> Clone ID: 700557869H1

<400> 3552

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 acatgaatgg gcgaatgtct ccctctccta tatctagccc tcggactgct tctgggtgcat 240  
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<223> Clone ID: 700557872H1

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<210> 3556

<211> 94

<212> nucleic acid

<213> Glycine max

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<212> nucleic acid

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tcataaaacg nnaaacccca cgatatttcg cacgctaact cgccatatcc gcaacccaat 240

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<210> 3558

<211> 292

<212> nucleic acid

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<223> Clone ID: 700557876H1

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 cgttagaaat catgaaggat ccagtgcggy totcaacagg catccaccta cgaccgtgaa 240  
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 ggcaagctac aattatgggt cctccagaca gtccctatgc tggaggtgtt ttccatgtga 240  
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<223> Clone ID: 700557881H1

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<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700557882H1

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ggggcatcat catgtttaaa aatctgccgc ggcacagtt tgggaacctg caaagcaaga 240  
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<211> 288

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<213> Glycine max

<223> Clone ID: 700557883H1

<400> 3563

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 tcaccaatgt cagtgagtat gaggtattg caaagcagaa gttgccaaag atggcgtttg 180  
 actactacgc atctggtgca gaggaccagt ggactctgca agagaacaga aatgcctttt 240  
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tgttatatag aaattttgaa tgtcatgaag anntagagga nagatgagag tacanggnga 180  
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tggagtcang anaggtgnaa tatntttggc cgatgtcagc actanggtga agnncaagan 240  
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<210> 3578  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558302H1

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<212> nucleic acid  
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<223> Clone ID: 700558303H1

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<210> 3580  
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<212> nucleic acid  
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<223> Clone ID: 700558304H1

<400> 3580

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gtagatgcca atgagg

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<210> 3581

<211> 283

<212> nucleic acid

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<223> Clone ID: 700558305H1

<400> 3581

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cncttggtgn tggctataac tgtggtgtag gatgcagaac aaggaagcaa aggaagaaag 180

tnatgcatgt gaagtgtgca gtggtggagg ctccaccagg tgtttcaccc tcagcaaaag 240

atgggnatgn aaccaccctc tcgnagaagc agcttcgtat att 283

<210> 3582

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558306H1

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gaaggatatt atttcgtgct caatacatat tgcgaagaaa actgagggac atgagggctg 180

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<210> 3583

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558307H1

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<223> Clone ID: 700558310H1

<400> 3586

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ccaganagaa atgcggtgtc ttcgacatca atggttgtgg cttagactag agcatgtaga 180  
ttggttgagg ctgtagggtta ttaaggaca tgccggttaa gaatacgggt tctggactgc 240  
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<210> 3587

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558311H1

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gggatggaca cgtggcgga ttgtatgatg ttgagtcgag cgaggaggaa gaggaagacg 240  
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<210> 3588

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558312H1

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tcgggagggt cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggt 180  
acggcccaga ccgcgtcaag tacttgggcc cattctctgg cgagcccccg tcctacctca 240  
ctggcgagtt ccaggtgac tacggctggg acatngctg 279

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nnnnnnnnnn nnnnnnnnnn naactcaaca tcaaaacaat atcaattcta ataataactc 180  
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<223> Clone ID: 700558316H1

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aaacctggcg tctatatcgg tagaggactg cgaatcaata aaggagatat ttgcgggaga 180  
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<210> 3593  
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<223> Clone ID: 700558317H1

<400> 3593

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cagatgcccc ctcaagtagc agcagtcagt taaattttag aagcaaagtt tgaattccaa 240  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558318H1

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<213> Glycine max  
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tgccccaaga ttcataaggt gcgtgaccgt tggatgatga gctgtaggga agacctgcat 240  
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<223> Clone ID: 700558321H1

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 aaatccatgg ctggcttccc cacgaggaag accaacaatg acattacctc cattgctagc 180  
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<210> 3598  
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 <212> nucleic acid  
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<223> Clone ID: 700558322H1

<400> 3598

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 ctggagaatg ttttgctgt cctacagagt tatggtattg ctgcaatctc tccattttct 180  
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<210> 3599  
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<223> Clone ID: 700558324H1

<400> 3599

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 gactgatgac acaaaggcaa ttcaagcctt taagaagttt ggaaacaagc tgaaggaaat 180  
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278

<210> 3600  
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<210> 3601  
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<210> 3602  
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<210> 3603  
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<210> 3604  
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<210> 3605  
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 <212> nucleic acid  
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 <223> Clone ID: 700558330H1

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<210> 3606

<211> 251

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558331H1

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cgacacgcag tttcttactc tcaggatcgc tacatcttcc agttaaacgc acgatggact 240  
cacgntctct g 251

<210> 3607

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558332H1

<400> 3607

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<223> Clone ID: 700558337H1  
  
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gctttttttg tttgcnttac catacanatt tncaaactct tcanacanat tcntccaagc 180  
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<210> 3613  
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<223> Clone ID: 700558340H1  
  
<400> 3613

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gattcaaagt ttggtggggt ttgatctgca ccaaagtttc ccagaccagt tgagataaac 180  
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<213> Glycine max

<223> Clone ID: 700558342H1

<400> 3614

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ataaaagtga caagattctc gaagtggata cttggaggcc aactcaagt ctcaccacag 240  
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<212> nucleic acid  
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<223> Clone ID: 700558343H1

<400> 3615

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<210> 3616  
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<212> nucleic acid  
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 <223> Clone ID: 700558344H1  
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 tggaccaaga tcaactccat ctccatttgg cttcnccaga aaagcctcct ttcttggtta 180  
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<210> 3618  
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 <213> Glycine max  
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 tcaacattgt cccacttca acaggagcag caaaggcagt ggccttctgc ctccaaccc 180  
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277

<210> 3619

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558347H1

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actttggatt ggaaggttgt cgcaatgggg aaggttgtgt tgttgtttct tgcannnnnn 180

nnnnnnnnnn ntcttggtct tgctgattca attgagaagc ttgaggttca gaagcactga 240

agaactgaat agacctctg ttagtccatc a 271

<210> 3620

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558348H1

<400> 3620

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aacctgctt tccatttaga aaaattgaag gttatgttac caatatttct gaatgttgtg 180

acgatatggt ttccaaatgg gaaaggttgt tgtcttcaaa tgacaaatcc gaaattgatg 240

tgtggccttc ctcaaaatta acagtgatat tatatc 276

<210> 3621

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558349H1

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 ccaaaatcag anaatccact ataacggttg angaacttta ggagcttaat gtggctttga 180  
 tgggctatat agtctttgca atcagcaact gggggtgtgc ctgtcttntg tgctgaaata 240  
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<210> 3622  
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 tgctttggaa gaagacttgg cgaanttaat gatgagcttc aacaggaagc gcagtgtata 180  
 ccaaacatga ctcattccaga tgttccaata ggaggggagg atgttccacc ataaggaaga 240  
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<210> 3623  
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 gggtcncaa cagcaagggt tccggtggaa gcttcaagat tgttgctgta gaagagaaga 240  
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<210> 3624  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558353H1

<400> 3624

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 nnnnnnnnct cattcaagac aggcctgtct ttgctgcccc tgcccccatc atcaccccaa 180  
 ctgtgagaga ggatatggca aaggactacg agcaagctat tgaagaactc cagaaattgt 240  
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<210> 3625

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558354H1

<400> 3625

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 cagaatctat tcctttggac tctttgccag aaccagccaa atctgcctac tctcccttca 180  
 ggaactcaat ggattctcct agcagaaaac acagaggtac ctacaatacc ggagcctcaa 240  
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<210> 3626

<211> 271

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558355H1

<400> 3626

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 taggtacttt cactctgtcc aatctgggaa tgtttggtgt tgatcgcttt gatgctatnc 180  
 tgccacctgg aactggagca ataatggctg ttggagcatc ggagcccact gttgtggcta 240  
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 ccctcaacta nacgacaaat tttccattcc cggcatctcc tcccagcttc gtaccccaga 240  
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<210> 3628  
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 gtatgtgtta ttgtgctatt ttcttatgct gctgcgtatg atcctttgga tccaaatgga 180  
 aacataacga tcaaattggga tgttgtgtca tggacaccag atggctatgt aagcgtggta 240  
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<210> 3629  
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actgtctact caacacaatc tctgagcaca aattgctcca tctcaacccc atcaaagacg 180  
 caactcagtt ttttccacca aaagcaggta gttttctgga ggaacagcaa gaagggcagc 240  
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 <400> 3630

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 <400> 3631

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 cgggtctcga tcctgaaacc aacgtggaat cgaaagacat cgtaatctcc gaaaaagacg 240  
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<210> 3632  
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<400> 3632

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tactgttttaa agtaacacat taattatgtg accttctcgg tctaaggaag taacaactca 180  
taaaggtttc tacatacctc acgtgttttt attcatgggt gagataataa gtagcaattg 240  
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<210> 3633

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558362H1

<400> 3633

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acataaataa attaaaaaat aacattttta ttacaatta ataaagatat cgggattcat 180  
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<210> 3634

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558363H1

<400> 3634

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taaaatatgt gaagacttca gagtcacatg aggaaaaatt cctggatctc aagcagcaac 180  
ttcaggtccc tagtgaaagg aaccttttat tgacgaccaa accaagtgga atacaacata 240  
tcagatgctg gtggcagctc tgaactacag gaagtg 276

<210> 3635  
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 ttgttcntcc ccttgntacg tgggnaccaa ctgctntgat atggnatttc cgatctnctn 180  
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<210> 3636  
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gttgggagga caacgagaaa aaacgtgtag tctggcggan gcaagtggag acttcatnga 240  
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<210> 3638  
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<223> Clone ID: 700558368H1

<400> 3638

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<223> Clone ID: 700558370H1

<400> 3639

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 aaacctggcg tctatatcgg tagaggactg cgaatcaata aaggagatat ttgcgggaga 180  
 tagttccgac aacattgcac ttcccaattt aaccaaattg caactacgct atttaccaga 240  
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atattgtgct gttggatgtc actccattat ctttgggtct ggaaactcta ggtgggtgtga 180  
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cgctg 245

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<212> nucleic acid  
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<223> Clone ID: 700558372H1

<400> 3641

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<210> 3642  
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<223> Clone ID: 700558374H1

<400> 3642

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<210> 3643  
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<212> nucleic acid  
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<223> Clone ID: 700558375H1

<400> 3643

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<223> Clone ID: 700558376H1

<400> 3644

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<223> Clone ID: 700558377H1

<400> 3645

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ggcttatgaa ttccagaagc cgacaatggt tgcaactgaa tgaatgcaca cgttggcctt 120  
gtgtcatgag gtattgcaat cttttctctc tatcacagtt tcatttaatt ttttaatgct 180  
gcaacgtatg ctgctgtata aaaatgaact tataattcaa ctagaattct cttattaaac 240  
cacacgtaca taagatatgc aagtt 265

Sequence 60660

<210> 3646  
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<223> Clone ID: 700558378H1

<400> 3646

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gaggagttga aaaagtgtt cagtaagctg gaaatttctt tttccgagga ggaaataaat 120  
gatctttttg aagcatgtga tattaacgag gatatgggaa tgaagttcaa tgagtttatt 180  
gtacttcttt gtgttgtcta ctttctcaag aatgaccctg cagctctcat gctaaatcac 240  
gaattgggat gccaaagctg gagggcaca 269

<210> 3647  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558379H1

<400> 3647

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actagaggaa tccatcataa aggcctcctg acgatgcttc taacagttga tagtggccag 180  
taacccttgg tatatncong natacaanta ntcttcctgn aagatngtgt taaccatggt 240  
ttcctgnatg atgcaaata tagtcctaag gntcaagcng 280

<210> 3648  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558380H1

<400> 3648

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gctctctgaa ttctctggcc tccgcagctc atcaggcttc ttccctttct agaaaatctt 180

cagaggattt ccatctgtca ttgccttcca gactatgcat tggaagcatg gaggatacaa 240  
naagggtgtg acgaggcaaa ctgangt 267

<210> 3649  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558382H1  
  
<400> 3649

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<210> 3650  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558383H1  
  
<400> 3650

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ctacaattcc ttttcaagan aagctnttaa ntgctcanaa ttcacaagct gctctagctg 180  
cccttanctn ttctnccg agcntctctg tgancnnatn aggccttgnn gctgataacg 240  
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<210> 3651  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558384H1  
  
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actcaaagcg gagtttcta ttttgagcta cgccganttcc taccagttgg ctggcggtgt 180  
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<210> 3652  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558385H1  
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 cgtactccgg aggtgaaatg cgcaagttgg aggcttgctg tgggaagcaca caacatcttt 180  
 ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat ccatggcgaa 240  
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<210> 3653  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558386H1  
 <400> 3653

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 atgatggagc tcggatacct gaatcaggggt cagccttcta gaggaacaac accacttgtn 180  
 cactcttcca ttgttgcttt caacacttgt gttcttctcc actttcacac atgccttctc 240  
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<210> 3654  
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 <213> Glycine max  
 <223> Clone ID: 700558387H1



<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558391H1

<400> 3657

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 cagtgcctaag gacaccgcca ccgatttctt gggcaaaggc ttggacgcat taggtcatgc 180  
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<210> 3658  
 <211> 264  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558392H1

<400> 3658

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 gatgggaatc aatggccagt ttcctggccc aaccatcaca gctgaagctg gagacaccct 180  
 tgagatttta ctaccaata agctctccac agagggaaca gttattcact gnccatggat 240  
 tagacagtat ggaacacctt gggc 264

<210> 3659  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558394H1

<400> 3659

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 cgcggcgtca acgatgacga gcttctgaaa ttccaacttc gcccttcttc tctgtgtnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc ggtgagggtta gctccatgcc 240

tagtcccaag agcagccgca gcggccagat cg

272

<210> 3660

<211> 270

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558395H1

<400> 3660

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aactatccat ggcaaaccgc tggtcagac ccgaggtgta tccactgttc gctgcgggtg 120

gtgccgctgt tgggatctgt ggattccaat tggttcgtaa tatctgcata aacctgaag 180

tcagggtgaa caaggagga agaaaggcag gagtgttgga gaactttgct gagggagaga 240

agtatgctga gcattcctga ggaagtatgt 270

<210> 3661

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558401H1

<400> 3661

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cacaccatca cccctatatt ggagtcttta tagggacgtt gactatgggt ttggcaaatt 120

gactgctttc aatcattcat atctcttggt tgagtacaag aaaagtagtg atggagaggt 180

ctacgactcc ttnacccatn tcaagagact aacagagatg ttttggcctg tgtgcacatg 240

gttgtggaga aaactactct agccaacatg agtnatgttg tgggtctatgt gtacnccga 300

atatga 307

<210> 3662

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558402H1

<400> 3662

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 ncnngnggtg ggcgaacttc ctgaagacga agacgacntc gaccgctga agatcnacga 180  
 cgtgaacccg gacatcctgc gggccttcgc cggcagcggn atctccgtna cggtgaccgc 240  
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<210> 3663  
 <211> 302  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558403H1  
 <400> 3663

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 aggcgcaatt cccccacat gcaagcgcat agagtgtccc agctatgatg tcattcacgt 180  
 aggcaacggc tacgaaatcc gtcgctatat ncaccgcttn ggatttnaaa cagnccnatt 240  
 naggactttc tcncgttgaa gccacagcaa cgggcttcag ggaggttatt tgnatataag 300  
 ca 302

<210> 3664  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558405H1  
 <400> 3664

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 ccaaagtgtg catcagggct tccattgccg ttgagcaaca aacttcccag actaagggtg 120  
 ctctcctcag aattggtacc agaggaagtc cactagctct ggctcaggca tatgagacca 180  
 gagacaagct catggcatca catgcagagc tagcagaaga aggggctatt cagattgtat 240  
 aataanaaca actggtgaca aaatatatca cagccattgc agacattggt gggag 295

<210> 3665  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558406H1

<400> 3665

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 tactggctac tacnttctct tcttctctct ataatagtaa caaccgtaac cccctctttc 180  
 aattattctc cggtattctc cggcctcgaa ttcgagcatt ttccacngac ttcagnatnc 240  
 annnacacca atgttcttct tctgcctttn cccaaagcag gcgaatttcg ag 292

<210> 3666  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558407H1

<400> 3666

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 gcaaagactg tcagagatga aatagctggc tgcagtgaga aggcctatga ctatctttca 180  
 attaaggatg ctaagcaaat gttgctgttc tcctctgacc aggaactcct tgaatatatt 240  
 aaagaggagc atcctgagtg ggagattaag aatggtagtg tcttttccaa aaggcc 296

<210> 3667  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558408H1

<400> 3667

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 aggatccagc agaggatgtc cttcaagcct ggtacatgga tgatagtgat gaagatcaaa 120

gactccccc ccacaaagaa cccaaggagt ttgtctcggt ggaccaactt gctgaacttg 180  
gagtccttag ctggaaacta gatgctgata accatgaaaa tgatccagag ctgaagaaga 240  
ttcgtgaaga gcgtgggttac acctacatgg atgtttgtga ggtctgcccc gaaaag 296

<210> 3668  
<211> 296  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558409H1  
  
<400> 3668

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ctgataatat tcttgctccc attatcacac atggcatata ttccactgtg atattgggac 120  
atggcctttg gaagataaat gaccaccggc gtagactacg tcaaagaatc caacagctca 180  
agtcagaaga aaaaaactcc aactagatgt ngaaatatcc tccangtccc angactgatt 240  
tnggttttna aaaaagtgtg tattagaggt gttgtataaa aaaaaganat gtatcc 296

<210> 3669  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558410H1  
  
<400> 3669

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agaggaagga gaagcaaaag cacgtgagct caatgtcatg tttattgaaa ctagtgttaa 180  
ggctgggttt aatataaagg ccctatttcg aaaaattgct gcagcattac ctggaatgga 240  
aacactatct tctgcaaaac aagaagactg gttgatgtaa acttaaagtc ta 292

<210> 3670  
<211> 294  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558411H1

<400> 3670  
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 tgtgcatgca tcagcccatt ggtatctgga gaatgttttg cctgttctac agagttatgg 180  
 tattgctgca atctctccat tttcnccaca gactgagttt tgacaacttg cctatggata 240  
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<210> 3671  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558412H1

<400> 3671  
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 ccctaaaccc ggtgggaagg ccaagaaagt ggttggaatt ataaagctgg ctcttgaagc 180  
 tgggaaggct acacctgctc ctcccgttgg ccctgctctt ggttccaagg gtgtcaatat 240  
 tatggctttc tgtaaggatt acaacgctag aaccgccgac aagcccggtt at 292

<210> 3672  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558413H1

<400> 3672  
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 caaatcgatg atctgtcgtg tccaaacttg tcttttatgc aggatcaagt gaaaactgat 180  
 tattttccat tgagtttgat ttagttctta gcttctgctt cgatgccttc aatcatgtca 240  
 cctcagtggc aagacaaggc tgctggtttc ttttcttcct ctgggggtcaa g 291



<210> 3673  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558414H1

<400> 3673

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 aatccttggga catgcttcag ttctattggg gggattactc gaatccaggc tacctggatg 180  
 cactaaaaca cctaacagat ttgaaagaag aaggtaaaat caagactgtg gctctgacaa 240  
 attttgatac ggagagatta caaattattc tgaaaatgag gttcctgttg ta 292

<210> 3674  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558415H1

<400> 3674

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 gaactcggcc cgaacgccc ccaacctgctc gttccttgag tcttcctatc aatctatgtt 180  
 ggtatttgcc atgggatgtt gacaataccc ggctnaagca attttcataa ancacggtaa 240  
 tgttgtnaat gctcgggtag tctatgacag ggagtcaggt cgatcacgtg 290

<210> 3675  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558416H1

<400> 3675

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tggtcaagg gtccccaaca caaagatttc ctctggaagc ttcaagattg ttgctgtaga 240  
agagaagaan gagattgaag agaccagca gaccgacaag gacagatgga agggtc 296

<210> 3676  
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<223> Clone ID: 700558417H1

<400> 3676

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tcgttaattc gattgntaat tnggtctttg tcattgaggg tttctgggtc acagtgagtg 180  
gatgtgaagg tttagatttc aaccnggcgg gtcngtntng ntttctaaaa ggtttaaggt 240  
tnaagctttt cgagctgctn gangcaataa tngcgaagng gatc 284

<210> 3677  
<211> 301  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558418H1

<400> 3677

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ccagcanttg tcagggaag gagagcnatg aagagggatt atgaagaatt taaggtagg 180  
attaacagnt taatggccaa cagcacaaaa ggttccnga ggatggangg ccatgcaana 240  
ngggacncct nggcnngaa ataatgggag gnntcancct ggcagatnc aggncttcct 300  
g 301

<210> 3678  
<211> 202  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558419H1

<400> 3678

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nnaagttgga tggctatnga agacgataatn tnntgtcact gnaggggtag caggatacca 180  
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<210> 3679

<211> 113

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558422H1

<400> 3679

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<210> 3680

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558423H1

<400> 3680

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gaggagctgg tggctgccgg cagcagaacg ccgtcgccga agacgacggc ggggaagctg 180  
ctgaaccggt tcgtggagaa caaggcgctg gcggtgtcgc tncaggtggn agaacacgtg 240  
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<210> 3681

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558424H1

<400> 3681

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 tcctcaaant gnttncttnt cttagccgtgg accgaaccan cttacancgc agattctgaa 180  
 acctgatggt antgctcctn gtgttaacat ttgancaggg tgnactggnn cgtgngggtn 240  
 ccacggattt tgacatnatc ctanaagggt cnanttnaac ataatatcgg gg 292

<210> 3682  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558425H1  
 <400> 3682

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 gcaaagacac atgggtgctgt gttggcatgt acagatggag cagttcttcc cgtcagtcaa 120  
 gtgtttgatg caattagaga gcttgggaat gaaggagttg agcaatggga tcctctagtt 180  
 cttacttctg cctcactctt gagcaagttg ccagtggatt cttcctctgt ngattttctg 240  
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<210> 3683  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558427H1  
 <400> 3683

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 accaaaacct tgcgcaacct atccatgacg cttggctcag gaggatccag tgctggtggt 180  
 cctaggaact tcagattgct ggaggagctt gaacgtggtg aaaaaggaat tggagatggc 240  
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<210> 3684  
 <211> 287

<212> nucleic acid  
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<223> Clone ID: 700558428H1

<400> 3684

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ggtgcaagcc gtgtcatgca atgatgtttc tgtgaaccta gcaccgtgcc tatcttacct 180  
gatgcagggt ggagatgttc cagaatcgtg ctgtagcgga gtgaggaaca ttctgggttc 240  
tgccagcacc acctttgaca aacaaaccgt gtgcaaattg cttcagc 287

<210> 3685  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558429H1

<400> 3685

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ctggaggatg tottgactg taaatcacca caaatttcct tcaaaataat tgagtgactg 180  
gttcagtgtt gtactatcct gtgatagegc ccttttattt ttctctatt tttgtcaaat 240  
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<223> Clone ID: 700558430H1

<400> 3686

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tcgtgggcac gccgttctct gattgttcta gccatcattt ccttcggatg tactatttgc 180  
gatttccatt gctaaggagg aagccaccaa gttaggagcg gtcacgggca tgatcttgga 240

acaacctatt catgtgtcgg tgtttacaag aatggccatg ttgaatcata 290

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152

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<223> Clone ID: 700558435H1

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<210> 3692

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558436H1

<400> 3692

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gaggagctgg tggctgccgg cagcagaacg ccgtcgccga agacgacggc ggggaagctg 180

ctgaaccggt tcgtggagaa caaggcgtcg gcggtgtcgc tgcagggtggg agaacacgtg 240

cagttggctt acacgcacca caacgagtca ccgtggcatc ccagatcttt gc 292

<210> 3693

<211> 291





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 gagctggagc ttcagctccc agttcagcct tctttgggac cagcttgaag aagggttattg 180  
 cctcaagggt cccccacagc aaggtttccg gtggaagctt caagattgtt gctgtagaag 240  
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 cgtggcacgt tactgggttnn aacacgtccg caacaacttg ccaaagccat cgtttctctc 240  
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catgctttgg tttatgatat taataaaagta aatgagactt gggaaatgggt tgatctcaaa 240  
gaggtatatg ntttcctatg ctgtgctgcn tatatcagag cagt 284

<210> 3699  
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<212> nucleic acid  
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<400> 3699

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gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca tggtagggcc 180  
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agttcccagg tgactacggc tgggacatgc tgggctttcg gccga 285

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<223> Clone ID: 700558446H1  
  
<400> 3700

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gacccccctta taaccacagt gccctcaaac cgtggcatgt ttgtgtcaca cttggtggaa 180  
cctttgtcca ttgggggtgc cattaattcg cacaagttgt gggggcctag aatttctgct 240  
gctgttgac aagaagaggc tgttgtgtg gctgatgatg aggta 285

<210> 3701  
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gagcggttcc agagcaaggc agcaagactt gggatggacc aaaaccatt tcattgtngg 180  
gtgtactngt tcaattggaa ctgagacact agatttgtgg cagngatcca gataagtta 240  
aagttgtggc attgcagctg gttcaaatgt tactc 275

<210> 3702  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558448H1  
<400> 3702

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acctagtcca ggcacntcca aagcnccggt ctcgaaaccn accccataga naattcnang 180  
ccagactagg nngacngcaa gcagcannaa tangcngaag atgcagagta aaaagtacga 240  
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gcgctgggat ccaaaacgac gtcggacgag gtgaagcgca tgatggcgga gctggaccgg 180  
aacggcgacg gctacattga tttgaaggag ttcggcgatt ccactgcggc ggcgggtggcg 240  
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<210> 3704  
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<212> nucleic acid  
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 <223> Clone ID: 700558450H1  
  
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 gcgctgggat ccaaaacgac gtcagacgag gtgaagcgca tgatgancgg agcttgaccg 180  
 gaacggcgna cggctacatt gatttgaagn agtncggcga nttccactgc ggcggcggtg 240  
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<210> 3705  
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 <212> nucleic acid  
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 tccttcttat tttatttttg gaatttgaat ttggtctctg ccgcatgtta gagtgaatgg 180  
 aatagatttg aggatgtcna agtcgattat cccaacatca cnagcnatct cccnatttcc 240  
 gagtgatnaa cccttttaaag aaagtccctg nngttgttna tggaggg 287

<210> 3706  
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 <223> Clone ID: 700558452H1  
  
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 atagtgaag cgcagtcttc ttccataaga tttctgcaa gttgttgga agccttgcca 180  
 agttcaagtt ttcgttcaac cacagcggta agggcggcga catctccgaa cctcaatnca 240

gctttgtctc caagcacctt agcctccatt acgacctcga agaccataat gct 293

<210> 3707  
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 <212> nucleic acid  
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 ccagtgttgt tgaggtcttc tctcgcatcg accacaaatt tgacctcatg tatgccaaga 180  
 gggcttttgt tcattggtat gttggtgagg gtatggaaga gggagagttc tctgaggctc 240  
 gtgaagatct tgctgccctg gagaaagatt atgaggaa 278

<210> 3708  
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 cccttcgctc ttgcgaaccc ttaacactcc tnccttctct tcctcttca 169

<210> 3709  
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 <400> 3709

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gcacttacta gtccaacagc gacggctgaa cctctttgtt ctctctgtct nnnnnnnnnn 60  
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 tgcttcacgt cttaggggtca tcagtgcccg ttcgtgcagc agcagcagga tacctgccag 180  
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<210> 3713  
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<223> Clone ID: 700558459H1

<400> 3713

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 atggtacttt tgccagagct gctgttccaa gtgggtgcac cactgggatt tatgaggccc 180  
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<223> Clone ID: 700558460H1

<400> 3714

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 gcaaagtgcc tcttttctac ggaaagaacg gttctggaag tggtnnnnnn.nnnnnnnnnn 180  
 nnnnnnnnng gatttcagga gcacttgctc ttcttgccgc agcttacatg ttccaagatc 240  
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<212> nucleic acid  
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 cctatatattt agatagtctt ttttatnatn catcaggatt gttatttcat aattcagcng 180  
 aaagttacct taatagaata gatccattct tccatagcta tcngcaaatn tcattagtgt 240  
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<210> 3717  
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 ccttaccccc tacaaatcca gccaatccag ttaccaatcc tgtggctctt atccaccacc 180  
 atcatcagga agtgttctctg tcanngtgca tgctctctcn aagcacaatg ctcaagctat 240



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277

<210> 3718

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558464H1

<400> 3718

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agcccaagag gaggcaatag caaaatccga aagtgaagca ttaggggacc cagagaaaag 180

agaaacattg aaatcatcat tgggtggaggt ggttcacctg ctcttctccc tctcccccta 240

catattgccc acctcctcca ccaaaaccat gagccggttg gaga 284

<210> 3719

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558465H1

<400> 3719

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tgtgctgaag atgccaagac tgcttgcaaa caacttagna cctacatcga ttacaaaatn 240

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<210> 3720

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558466H1

<400> 3720

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<210> 3721  
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<223> Clone ID: 700558467H1

<400> 3721

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acgtcgggct gggcgtgaag tgcagcaagg aagtggcgac agctattcgt ggcgcgatta 180  
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<210> 3722  
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<212> nucleic acid  
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<223> Clone ID: 700558468H1

<400> 3722

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caccaggttt attggtgtgt tttgtctag gctcctgtca aagaggggtca ccaggtgact 240  
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<210> 3723  
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<212> nucleic acid  
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<223> Clone ID: 700558469H1

<400> 3723

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atggtgngt tcatgcagaa ggtggtggtg ggtggtgacgc cggcgctcgga gctcacgggtg 180  
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<210> 3724  
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<212> nucleic acid  
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<223> Clone ID: 700558471H1

<400> 3724

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taagaactat gtgtcttgag tgggttggtc aacttggtat tccagacata atacacacnc 180  
atggaaaacc cattactctt tctgagttgg tctcaactct ccaaattcca ccacctaagg 240  
ctggnnittgt gcagcggttc atgcgttttt tggatatcaat gga 283

<210> 3725  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558472H1

<400> 3725

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gttactactc gtttctattc caagaatttg caaaacgtgc ctcttccat tgctcttgaa 180  
accatttctg atgggtttga tgaagttggg cccaagagg ctgggagccc caaggcctat 240  
atagatcgct tgtgccagtt ggatcagaaa ctttcatga gctt 284

<210> 3726  
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<212> nucleic acid  
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<223> Clone ID: 700558473H1

<400> 3726

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ctgttngngc ttctgggtgcc cttnttggac ttcttggcgc aatgctgtct gaacttatca 180  
caaaactggac tatatatcc aanaaagcna tggctttaat ancccttcta gngatcatng 240  
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<210> 3727

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558475H1

<400> 3727

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agcaatatgt gtgcagaagc cgctcctcga gtttcagcgt gccaaagtga agtttgagga 180  
tgagttgggtg aagttagctg aggaggatgg tggattcact tatagcatag tgaggccaac 240  
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<210> 3728

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558476H1

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taattcaaca agtgcagaaa ttcttagccg agagtactga tgcaagtga gcgagaaata 180  
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<210> 3729  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558477H1  
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 agaacgtggc tggggacatc attggaacca ggaccgagct cgcggacgtg aagtcacgc 240  
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 ggaagtcctt agcaggtgtc ttcatcatt ttgagtatga accaatagct gctgcaagtc 180



gnaaattncc attcaggtca caagnaattgg gatacagaca nannatgtca ntatatgant 60  
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 gatctcagtg gaaagggggg gaccacaatt atcggaggag gagattctgt tgcagctgtg 180  
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275

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ggcagcacta aggatgttag gcaccaccaa caacancaac atatatgcat gtctctcaca 240  
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caggccaacg ccactccctt cctgaccttc gtgactganc gtgtcggcgc ctccgtgtat 240  
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tggaacttgc acttggtttg tttgtgttag ctttgtttct gcacttgctc ccacaccaag 180  
tncaaaatca aaagcacttc gccacctccc anacctcca agcccaaagc ctcgtcttcc 240  
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cgttgatcct gagattgctg atattattga gcttngnaaa gctaggcaat ggaaggggct 240  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558506H1

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gatcacatct acacttacag agccgttttc acctattccc atcatggcat ttttgttggg 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558508H1

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atcctcggaa ccttcgatgc tgatgtcaag cctggtggca gcaatgtcat ctccgtggat 240  
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<210> 3747

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558509H1

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gccgtggagc ctccgccgga gcaggccgtg ccggtgccgg agccttctct gcctccgggtg 240  
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 acccgantct cttctggagc acatagagca nnaatatctg ctgaanctgg aagacaagat 240  
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 cccagaagt gggaagggtg agcatgagga agaccgtcac caagcagggt cctcaggaag 180  
 cccatggtac ggcccagacc gagtcaagta cttgggcca ttctctggcg agccccgtc 240  
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ngccgtcgaa tcgttgccg tctccgaccc tcagatcccc caatcatcaa tcccagtgca 180  
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gaccataact ttggagggttg aaagctctga caccattgat aatgtgaagg caaagataca 240  
ggacaaggaa ggtattccac cagaccagca gaggcttatt tttgcaggga agc 293

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tacggttcgt caggttcgtt ccttcgcttt cgacggcgaa caccgaggcc ccgcaattca 240  
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<400> 3753

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 gttcaccact acttcttca ggcctacgg ngccgancac ttctctcgna tntccaccgg 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558518H1

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 ttcaaagagg agtttttgat cattgggtgag aactcaatag atgatatgctt ggtcttgagt 240  
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<223> Clone ID: 700558530H1

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 cgaggaaaat gccgtccaag aagctgcttc cggcttagag agcatcgaga agctcatcag 180  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558531H1

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 aatgcgacga ctgcaggcag aacaatatta agaataacca cgctttctca ggntacgtgt 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558532H1

<400> 3766

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<210> 3767

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 tttcatctat cactcccgtt ttagccccc cttgaatact acacagctag gggtttacttt 240  
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<210> 3768  
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 <213> Glycine max  
  
 <223> Clone ID: 700558534H1  
  
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 atccaattca tgtgtcacat atgctaacag tgctagagaa tctccttttt tgatcttgta 180  
 gcttcccaac tcaactccaa caccaatgga tcaactcctg tgaggggaga gacagtggcc 240  
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<210> 3769  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558536H1  
  
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 agagggccaa agaagaggac tttgatgctg aagaaagaga ctactcaatg aagaaaatga 180  
 gcaagaagag gagctttttg atcaagttgg tgattgcttg ggaactttga taaaaacatt 240

caggacatct ttcttgcctt tctttgatga gctgtcctca tacctaac 288

<210> 3770

<211> 255

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558537H1

<400> 3770

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tcttggttcc ctaagtattc tcctatctaa aatgttaaag agtggccacc attctgcatt 180

ggaagctata gggggccatgc ttagaggctg tgtgtatctg caatgaagag gcctagccac 240

cttcatcacc atatg 255

<210> 3771

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558539H1

<400> 3771

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aggaaagaga aagaataagg gttaatttgg cctaattgaa attcggagtg aaactcggga 180

tctcgtccag gcttccatgg aattgaatta ataattcaat tccatttcta ttaataaaaag 240

agtgaagca gaaatttaaa tggaatgtat aggggtggggg caacaatatc a 291

<210> 3772

<211> 236

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558540H1

<400> 3772

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ctctcacaag gccagtttca tcagagacca gatgatcat cttctccggt cacagccaca 180  
gacatttgct cctcaccctc ctccacttca caaagactat ttgcccctc acaccc 236

<210> 3773  
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<223> Clone ID: 700558541H1  
  
<400> 3773

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cttcttttga aggtgcacat gatcacaact cgtggtgggt gcgagcgaga tcacagaaac 240  
gcattggtca aagattacac acacaggaca tagctagagg gctgagaa 288

<210> 3774  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558542H1  
  
<400> 3774

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ttagtctctg gggctgaagt aggccaagg ctttctttgt gtttggagat tcacttggtg 180  
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tgattaccct ccaagtcata gacc 264

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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558544H1

<400> 3775

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 agacatgtca ataatatcac atgacaacgc tcatgcggat gggccacgag gcgcaccgac 180  
 gacgaggtga tgtcaatggt cgaggagtgg ctggtgaaac acgacaaggt gtacaacgcg 240  
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<210> 3776

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558545H1

<400> 3776

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 gttgatgggtg tccttttaat gtgattttgc tcctctctct tttccctgc tgtaatttta 180  
 atcattttca gggatcatgt tcctttgtgc agttgcaaac tccaaaccaa catgtcaaat 240  
 attgctctca gtttaatata tagagaatga ttcccttgta aaaa 284

<210> 3777

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558546H1

<400> 3777

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 ctcaagtcca tggctggctt cccaccagg aagaccaacn atnontacct ccattgctag 180  
 caacggtgga agagtgcaat gcatgcaggt gtggccacca gttgggcaag aagaagnttg 240  
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<210>      3778
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558547H1

<400>      3778

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cttaatatca catngactta aaaaaangaa ganggggggn caaagttgag ncccgnng   118

<210>      3779
<211>      283
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558548H1

<400>      3779

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atcatagctc aggattaagg ctctagaatt gtatagttac taaattctat ttttttcat   180
acaatagttg aattttggat ttccagaatg tatgtttgtg tagtatctac tttctgcct   240
agagagtcta taattaatgg ctataataag acgaatggca tcc                       283

<210>      3780
<211>      284
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700558549H1

<400>      3780

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tcctccttcg ccggctacac cgtnaaggcc accgttcgcg cacaagtgat ccgaaaaaaaa   180
caaaccactt gattggcctc gacgggtgcta aggagagatg cacctctacg aggcgaatct   240
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<210> 3781  
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 <213> Glycine max  
  
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 ctcaagtcca tggetggctt cccaccagg aagaccaaca tgacattacc tccattgcta 180  
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<210> 3782  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558553H1  
  
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 aacactaggg agactgcctt tgccatcagg aagttgcctt tgttaaagct aaacgatact 180  
 tagaggatgt tttggccac aaacaggcta ttcctttccg acgcttttgt ggtgggtgtg 240  
 ggaggacggc ccaggctaag aacagacact ccaatgggca aggac 285

<210> 3783  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558554H1  
  
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 cgcgtagctg tggatctggc aaganaacaa ggaagggagg ttcattgagg atctgaattc 180



gcagtgttag ggctttgaag ggtttttcca ttttcttcaa tggccacgcc ctttcccatt 240  
cccgtcaccg cagctcaggt tggaacgtac ttcgtaggac agtacta 287

<210> 3784  
<211> 255  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558556H1  
  
<400> 3784

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cgcgttnant catcgccaac gaccaaggga acagaacnnc gccgtcttac gtcggattca 180  
ctgacaccga gcgtctcatc ggtgatgcgg ccaagaatca agtcgccatg aaccccatca 240  
acaccgtctt cgatg 255

<210> 3785  
<211> 284  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558557H1  
  
<400> 3785

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gctactctat caagcttcat tgctacgccg aagaatccca gaccactttt ctctcaggtt 180  
cctcattcat gtcgatggac aaatgcttct tgaaaatcag caccagcgga cactttacag 240  
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<210> 3786  
<211> 283  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558558H1  
  
<400> 3786

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caacagacac nnnnnnnnnn nnnnnnnnnn nnaatggccc gaagcagacc aaggctgaga 180  
agaagatcgc ttacgatgcg aantgtgcga cctaattggag gagtacggcc agatcctcgt 240  
tgtgaactcc gataacgtgg gatcgaacca gctccagaac att 283

<210> 3787  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558559H1  
  
<400> 3787

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acgacatgac aatctcctac gccggccaca acacccctc gcngccgtcc aggtgacgga 180  
actcgccgac ggntcttcgt cggctgcacc gtcaaccact ccgtcacga cggcacctcg 240  
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<210> 3788  
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<223> Clone ID: 700558560H1  
  
<400> 3788

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ntgctcaatt caattcccn ctccgttgct taggtccttc tcaatttctc gcagatttag 180  
ccgttcatgg acgccgccgt gaagccggag acggaatacg cggccgtttc gacggatcag 240  
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<210> 3789  
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<212> nucleic acid  
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 cctatatntt agatngtcct gtnttattat tcatcggatt gttatntcnt nattcagctg 180  
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<210> 3790  
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 gaaggntttc aatccgtnaa tggcttacag acctnatgca gtttggaanc agtggagggt 240  
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<210> 3791  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558567H1  
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 tgacttcagt ggaaccagac ttcaaactca acttcagtca agagaaagca atgccatcca 180  
 aaagggtctt tctacgtctc cgcacgcagc accaagaaaa tcctaataat gggaggcacc 240

aggttttattg gtgtgttttt gtctaggctc cttgtcaaag aggg 284

<210> 3792  
 <211> 87  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558568H1  
 <400> 3792

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<210> 3793  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558569H1  
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 gcatcatgtt ggtgagcaca agccggagca ccatggagga gaagagcaca aagaggggtt 240  
 cctagacaag atcaaggaca agatccacgg cgaggagggt gg 282

<210> 3794  
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 <212> nucleic acid  
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 <223> Clone ID: 700558571H1  
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<212> nucleic acid  
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 ggcatccaca gcttcactat gagtcaaaac tgtatatgct tcttcaagga ggaacgggga 180  
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 ttggaccaag tctggaagat ttattcaatt attgtaatcg gaa 283

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 <212> nucleic acid  
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 ttttgtncaa caagctatgg aggtttcggg gattgaagcn cacaagcgaa ctggcgcgcg 180  
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 aatggtagag ttagtttttg taggaataat atacggggg 279

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 gagcttcctg atggacaagt tatcacaatt ggggcgagag attccgttgc ccagaagttc 180  
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279

<210> 3798  
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 <223> Clone ID: 700558577H1  
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 tccaaggagc ttctcaagga aatcgccctc cccacggcct tcttccccctc aaggacatgg 180  
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<210> 3799  
 <211> 270  
 <212> nucleic acid  
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 ccgcttctct gaatcccttt ctgtnatcat ctgtctttcn actcgtgatt ttttgggttt 180  
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<210> 3800  
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 <223> Clone ID: 700558579H1  
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<223> Clone ID: 700558582H1

<400> 3803

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ttattattcc aactcgttcc actctttctt ctcattctcc ttcttccttt tccgcttaca 180  
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<210> 3804  
<211> 279  
<212> nucleic acid  
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<223> Clone ID: 700558583H1

<400> 3804

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<223> Clone ID: 700558584H1

<400> 3805

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caatccacat cggccaggcc gggattcagg ttgaaacgcc tgctgggagc tttactgcct 180  
cgaacacggc attcagcctg atgggcagat gccaaagtac aagaccgttg gtggaggtga 240  
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<210> 3806  
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 <212> nucleic acid  
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<223> Clone ID: 700558585H1

<400> 3806

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<223> Clone ID: 700558586H1

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<223> Clone ID: 700558590H1

<400> 3808

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gaagacattg tagaagtgct ctgcaatttt ccacagttga agttgaanat acggggaaaac 180  
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<210> 3809  
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<223> Clone ID: 700558592H1

<400> 3809

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 gtgccgctgt tgggatctgt ggattccaat tgttcgtaat atctgcatca accctgaagt 180  
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<210> 3810  
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<223> Clone ID: 700558593H1

<400> 3810

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 ggtncgccgt gttgggatct gtggantcca attggntcgt aatntctgca tcaaccctga 180  
 agtcaggggtg aacaangagg gaagaaangc aggagtgttg gagaactttg ctgnagnnag 240  
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<210> 3811  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558594H1

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 ggtgccgctg ttgggatctg tggattccaa ttgttcgtaa tatctgcac aacctgaag 180  
 tcagggtgaa caaggaggga agaaaggcag gagtgttga gaatttgctg agggagagaa 240  
 gtatgctgag catttcctga ggaagtatgt gcgca 275

<210> 3812  
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 <223> Clone ID: 700558595H1

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 ggtgccngt ttgggatctg ggattccaat tgttcgtaat atctgcatca accctgaagt 180  
 cagggtgaac aaggaggga gaaangcagg agtgntggag aactttgctg aaggagaga 240  
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<210> 3813  
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 <223> Clone ID: 700558601H1

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 ttcagcggca cgaagatgga ggaatactc aagtagaggt gttgataagc ctcccacatt 180  
 taaacttcca gaggcaagcc ttggcaagga caagtgaaca gtacttcatt taccttctac 240  
 tatatcattt agtcccggtg aattagttca tttatagcct cctaagttaa acca 294

<210> 3814  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558604H1

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 gcttagatcc acttcatgtg tcacatatgc taacagtgc agagaatctt ccttttttga 180  
 tcntgtagct tcccaactca ctccaagac caatggatca actcctgtga ggggagagac 240  
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<210> 3815  
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 <213> Glycine max

<223> Clone ID: 700558605H1

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 ttcaatgccca ttatgagctt tccacccaac taoccaaata gtccgccatc agtgaaattt 180  
 acctcagagt tatggcatcc caatgtgtac cccgatgggc gagtttgcac atcaattctt 240  
 catccacccg gtgatgaccc aatgggttat gagcttgcaa gtgagcgc 288

<210> 3816  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558606H1

<400> 3816

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 ncttttttcc tatgctttta aggcacaaac ccttctttct tccctcttct nnnnnnnnnn 180

nnnnnnnnnn nnntgccttt acccttttagg gaaggaagaa ggaacaacta tactactatt 240  
atccttatta ttgttattat tgtaattaat ctttttatnt agttatg 287

<210> 3817  
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<223> Clone ID: 700558607H1  
  
<400> 3817

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ggncagganc gnctgnattg cancannanc ttacaca 157

<210> 3818  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558608H1  
  
<400> 3818

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cacatgctgc cgccaaagtt tccgtcttta ccgtcagatg ctcttcttcg ggtagtggag 180  
agaggccttg gaagaattca gatgctagac ttgtgcttga agatgggtca atttggagag 240  
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<210> 3819  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558609H1  
  
<400> 3819

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gacctcaaac tatctcagac tcagagactt gtccatcact tcaatcccaa aactcccata 180  
gaggaagccg ttactcccc aacatcatgg tacactcatc cctctttott ccaccttgag 240  
ctcgatcgtg ttttctacag aggctggcaa gttgtgggat ccacagagca ga 292

<210> 3820  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558610H1  
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accgagtttc aacttcgagc tttggaaggc gtgccgcgcc acgtcagcga ctcttgccgt 180  
tttcgcgccc tttcattctt cctccgtcga cggaaaaacc tcgtgcnccg ccgtcgacgg 240  
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<210> 3821  
<211> 286  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558612H1  
<400> 3821

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ttatttaaaa atgtacacct gtttatgtgg cgattctaca cattttttct ttgataagat 120  
gaggctaaga aacatgcggt gcgctaaagt gttgtatttt cttggacaat aaaccctctt 180  
ggttgatcgc tgaaagtttg ttaaagagc aaatttcacg ctttcaaaag tttatgcact 240  
tttgaagtg gtttgctctg tcatatgaac tcagttccaa ggtttt 286

<210> 3822  
<211> 286  
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<213> Glycine max  
<223> Clone ID: 700558613H1

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 tcgnccaacc cggcttccac tttttcaacc ctctcgccgg cgaatgcctc tccggtatcc 180  
 tctccaccag gatctcctcc ctcgatgtcc gcatcgaaac caaaaccaag gacaatgtgt 240  
 ttgtgcagtt gctgtgttcg attcaatacc gagtgattaa ggaaaa 286

<210> 3823  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558614H1

<400> 3823  
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 ccgacgcccg agtccaagat ggtggacgag gccacgctgg agaccatgga agaaccat 180  
 tggggcatga atctcagaat ctgtggcatg atcaacagcg accagttcaa cggctctgag 240  
 gtcgttaagg ccatcaagag aaagatcaat cacaagagcc ccgtcg 286

<210> 3824  
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 <213> Glycine max

<223> Clone ID: 700558615H1

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 ctattatggc agttggcaaa gggagacttc aaggtgcact gaacagtccg gcactggaca 180  
 ttogatctaa tttcatgcca caattaaatt acttgaaaat gatgctagac tacaattatt 240  
 gatgcaaaga tctcttgtac cacagcaaaa ccttagattt tcgana 286

[illegible][illegible][illegible]



gngcctccc gtncgccc gaccggcggc tccggttga acaccggtgg ttccttcact 240  
tccacttcac cggcgctctc gtcggaaccg gaagtcgcgg cgcttt 286

<210> 3828  
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<223> Clone ID: 700558621H1

<400> 3828

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tatcaaggcc ccttccctct tccaggtcaa gaatattggc aaaaccctcg tctctcgtac 180  
ccagggaacc aagattgcat ccgaaggact caaacatcgg gtttttgagg tctcattggc 240  
tgatctccaa ggggatgaag accantcctt caagaagatt cgtttga 287

<210> 3829  
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<213> Glycine max

<223> Clone ID: 700558623H1

<400> 3829

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gactaacatg gtgaaaaaat atgacaagga aaagaacacc tggaatgaat tggggaggct 180  
tccagtcagg gcggattctt ctaatggttg ggggttggct ttcaagggtt gtggagagca 240  
acttttggtt gtgggtggac aaagggtcca gaggtgaatc tattg 285

<210> 3830  
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<213> Glycine max

<223> Clone ID: 700558624H1

<400> 3830

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 antattcgna gaancctcgt ctctcgtacc cagggannna agattncatc cgaagnctca 180  
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<210> 3831  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558625H1  
 <400> 3831

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 ggcaagccct ttgtggaagt cttgaaggag gctgggtgtgc ttcttgcat caaggttgac 180  
 aagggcanag ttgagcttgc tggcactaat ggagaaacca ccactcaggg tctagatggc 240  
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 <213> Glycine max  
 <223> Clone ID: 700558626H1  
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 gggtgttgcg tttgaggtca acccggtttt tgatcttcaa tctacagtng tttctttctc 240  
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<223> Clone ID: 700558627H1

<400> 3833

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 ctccncttc ctccacccca ccaccgtcct ccgcgcncn ccctnctcna ccaactnncac 180  
 cacctccccg cgcnntgccc tcaccgtccg ngcngncngn ggcaagttcg agcgcaagaa 240  
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<210> 3834

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558628H1

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 caccagttac aagcatttac acatgnctat gcagagctag agtcaagttt atctgggttt 180  
 aatgttctga ttgaganata ctttgctgat gtccctgctg aagcatacaa aacactcacc 240  
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<211> 259

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558629H1

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 tgagttgtgc tcacactgtg agaaggaagc tgtgaatgtt tcccttggaa accttctaac 180  
 ataccattt gttagagatg gcttggtgaa caagacattg tcactaaaag gaggatacta 240  
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 aaggatgcaa ctcaggatgt tccagcactg tgcgattcta ctaggaaaac ttgttatggt 240  
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<210> 3846  
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<223> Clone ID: 700558643H1  
  
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<210> 3848  
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<210> 3849  
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<223> Clone ID: 700558646H1  
  
<400> 3849



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gaactggatt ccacaggcag cgcttgctga atactacgct caaagatcaa caccaggtgg 240  
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<223> Clone ID: 700558647H1

<400> 3850

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gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180  
ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggg gctgaaatgg 240  
gtgtgcccgc tgagaacgat ggctgcaa at gtggaccaa 280

<210> 3851  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558648H1

<400> 3851

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aactacttc ttgttgatgg tagcagtcca attgatgtta ccgattcaca gtgggagctg 120  
tatattgtgt gtcagaagaa aactgatcag cagggagaga tccaatatag gttgactggt 180  
tttactgctg tttatogatt ttatcactat cctgatggat tcccgaatgc nactaagcca 240  
gatactggta ttacctcctt accagcacaa ggggttatgg cgat 284

<210> 3852  
<211> 96

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558649H1

<400> 3852

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gaggaggaga gacccacggn nataccctta cagctt 96

<210> 3853  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558651H1

<400> 3853

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ggtagcatgg caatgccatg cgtacgatat gttccctctc cgaatgaaca ctggctatgg 120

tgcccgtact ccggagggtca aatgcgcaag ttggaggctt gctgtggaag cacacaacat 180

ctttggcttt gagaccattc ctgaagagtg cgttgaagca acanaggaat acatccatgg 240

cgaacaatat agatcagact ccaaaacagt t 271

<210> 3854  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558652H1

<400> 3854

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caagactcac tctactctcg acctcgacct cttgccactt cccagccact tcgacgcttt 120

cgcagatctg gtgcacgcgc cgtcgttcgc ttaccggcgc gtggagaggc atctcgagaa 180

tgagttgcgt ttgcagagcc tctctgaccg tgtggcggan tggagtcgcg gttcgaccgt 240

gtgctcggcg gagatcggaa gtacacgtgg acagcggaga tc 282

<210> 3855  
 <211> 282

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558653H1

<400> 3855

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gaacaacaac tcctctttaa ccgttggagc tagaggtcca attctgctgg aggattatca 180  
tcttgtggag aagcttgcaa attttgatag ggaacgtatc ccagaacgtg ttgtccatgc 240  
caggggcgct agtgcaaagg gtttcttga ggtcacccat ga 282

<210> 3856  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558654H1

<400> 3856

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gccaccacaca agacaagaaa gcgttgcctc aactccagaa ggacctcggc aacccttatc 180  
acatcatatc ctggaacgca aaggaggatt gctggcgagt ggttctgctg cgtaaagtgt 240  
gacgagaaaa caaacgcgt cattagcgtt gccttatcat ccc 283

<210> 3857  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558655H1

<400> 3857

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cactgcaaga ggcgtgcac cacagggtta agcatgttga agaagcaggc ttagttcctg 180  
ggttcaaaga ggagtttttg atcattggtg agaactcaat agatgatagc ttggtcttga 240

gtttaaggtc tcttcagttt gaccttgcag ggaacgttgt ag 282

<210> 3858  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558656H1  
 <400> 3858

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 gtccacgcat ttcagcagtg atcttcagcc atcctccaaa catttgagga agaaaaacat 180  
 tggaattctc gaacttggga tactgagtgc ccgcaacttg ctgcccataga aggccaggga 240  
 agggaggact accgatgcct actgcgtggc caagtatggc aaca 284

<210> 3859  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558657H1  
 <400> 3859

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 agctaagggt ccagttcgcg tgaagtcaact gcacacgaan ccagnaaccg tnaacgancc 180  
 cacttnacg gncaagggtg ntgctcctaa gtgggcccag aagacaataa ctttgcctcc 240  
 ccttanacgt ggttgnatt taatcacttc taagatagtg aa 282

<210> 3860  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558658H1  
 <400> 3860

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cgcgctgaca ctgctttgcc ggagactctc accagaatcc ggtgccagaa gcctctctct 120  
gtccgatgct ctggcgattc cccttcgggc tctgtgggtt cggagttcga tccgaangtg 180  
tttcgtaaga accttactcg gagtaagaat tataaccgca aaggatttgg gtacaaggaa 240  
gagaccctcc aactcatgaa tcgcgagtac accagtgat 279

<210> 3861  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558660H1  
  
<400> 3861

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aatctccctg aaatgcaaaa ttctttatcc tactgctctt agtcttcttn gtncacatat 180  
atatgcatga acatttatac tagcatgcag attaggatcg atgcagatcc atnttcggag 240  
gtgaaattca cttcaagaca actcaggttc agcgtggc 278

<210> 3862  
<211> 278  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558661H1  
  
<400> 3862

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tccaaccttt gagcagccca anatgactct ggagaagctc ttgacgtatg gtaacatgct 120  
tgtccaagaa caagagaatg tcaagagagt ccaattggct gacaagtact tgaacgaggc 180  
tgcacttgga aatgctaacg aggntgctat tagtaggggt tctttnttcc antctnnnnt 240  
tgnaggcana gcaaacttgg caagtaaata tttctggt 278

<210> 3863  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558662H1

<400> 3863

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 tcacgtacga cgagaagcgg aaactaggtt atggtaccca gaaggagagg ttgggaaagg 120  
 actccattaa gcccttcgat gcttgccttc tctgcctcaa atccctaata gaccctatga 180  
 gctgccagaa gggccatctc ttttgcaaag agtgcattct ccagtgcctc ttgtctcaga 240  
 agaaagacat tcaaaggaag cttgcagccc atgctgctca g 281

<210> 3864

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558663H1

<400> 3864

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 aggaaaagct gtgggaagat aatttgggtcc gttggaatct tggagaaggt tattttacgt 180  
 tggcgtcgaa aaggtagtgg tttgcgtgga tttaaaccgg aggccaattc tgagggaact 240  
 atgatacaag atgtatctca acagatgatg actatgatgt c 281

<210> 3865

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558664H1

<400> 3865

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 gaagacattg tcgaagtgct ctgcaatttt cccacagttg aagttgaaga tacgggggaaa 180  
 cttgagtcaa ggaaggtagt tgctgctagt atgctaggaa agagcttaca agctggggat 240  
 gttgttttcg agagggtggt taatgctgnc tattcagctt tgc 283

<210> 3866  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558666H1  
 <400> 3866  
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 ggagaattat tacccggttc ttttccgtgg agtcaatgga acagttgctc atgaattcat 120  
 cattgacttg anaggcttta ngaatactgc tgggaattgag cctgaagatg ttgcaaagcg 180  
 cctcatggac tacgggttttc atgcaccaac aatgtcatgg cctgtgcctg gcacactcat 240  
 gattgagcct actgagagtg aaagcaaggc cgagttaga 279

<210> 3867  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558667H1  
 <400> 3867  
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 aggcaagggt ttgggtaagg gaggagccaa gaggcacagg aagggtgctcc gcgataacat 120  
 ccagggaatc aaaaaacccg ccattcgccg tttggctcgc agagggcggc gtcaagagaa 180  
 tcagtggcct catctatgaa ganacccgcg gcgtccttaa gatcttcctc gagaacgtta 240  
 ttgcgcacgc tgttacctac accgagcatg ctaggaggaa 280

<210> 3868  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558668H1  
 <400> 3868  
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 ttccccagct gttaccactg tcaaccgtgc cgggtccggc atgggttgctc cattcactgg 120

cctcaagtcc atggctggct tccccaccag aaagaccaac aatgacatta cctccattgc 180  
tagcaacggt ggaagagtgc aatgcatgca ggtgtggcca ccanttggca agaagaagtt 240  
tnngactctt tcctacctgc cagacctga tgatgcaca 279

<210> 3869  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558669H1  
  
<400> 3869

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catggctgnc tccgtctcca ctgtcngagc tgtcaacaga gctcttttga acctgaatgg 120  
gtctggacct ggggtttcag ctencagttc atcctncttt gggancagct tgaagaaggt 180  
tattggctca aggttcccc aacaaaagat ttctctgga agcttcaaga ttgttgctgt 240  
agaaganaag aaagagnttn angagacca gcagaccgt 279

<210> 3870  
<211> 261  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558670H1  
  
<400> 3870

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tctcagtctc cgactccaca ctngcattcc cattcccatc aacactgcca attcaaatac 120  
cttattatcc caacctcgct tcactctttc ttctcattct ccttcttcct ttcccgctta 180  
cagttacaga ggccccacac caaaacgccc cttcctcgcc gactgggtct cccaaaacga 240  
cgacctcggt cgcacctcc c 261

<210> 3871  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558671H1



<400> 3871

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 ggctgaacg tgccgataac tggcgtgacg gcgccgttca cgcaccaacgc gtgtttgcna 180  
 gggtagcgtc agcaatctca agattcgagt ctgtaacagt ttgtgttagt tctgcacagt 240  
 ggganaacgc gcggagtcag ctaccggagc atatcagggt 280

<210> 3872

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558673H1

<400> 3872

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 ggaaaagtgg gacctctaca agctcgtcca aggagagttc ccggagcagc atgacttgcc 180  
 tctctacgat ggctttgtca tcagtggaag ctgctatgat gcacatgcca atgacctatg 240  
 gatccttgac ctcatnnnt ctcgttatca aattggactc c 281

<210> 3873

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558674H1

<400> 3873

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 cagttctgca atcttttggg acagtcgtat aatagtccat tgagcgtgac ttagcanca 120  
 ggggtccagg ttttgccacc actcctcaaa tttatgaatg tcatggcagg gaagaagaat 180  
 gaatggcagt ctatgaacca gttaccggtg ccggttgagt tggaccgtga gttccagttc 240  
 cattctatct ntgtttgtcc tgtctccaag gaacaagc 278

<210> 3874  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558675H1

<400> 3874

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 cagcactgtc actgagtcgt tgtcttgcnaggataatgg ncttggttatg aacttctaca 120  
 aggaatcatg ccctcaggct gaagacatca tcanagaaca agtcnagctt ctctacaagc 180  
 gncannngaa cactgctttc tcttggtctca gaaacatctg tccatgactg tgctgttcag 240  
 agttnnngatg cntcactgtg gctggactcc acaaggag 278

<210> 3875  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558677H1

<400> 3875

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 tgtcagtaat caccgaggac ttggaggtgt ttcaatcacg tctgattgtt tctacaatgc 180  
 tggatggact gaggatgtcc gcacagtggg taattatcta cacaaagaga accccagggc 240  
 acctttgttt gttgttggga ctagcattgg agcta 275

<210> 3876  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558678H1

<400> 3876

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 gttctctgat tgttctagnc ancanttcct gcggatgtct atntgcgatn nccattgcta 180

nggangaagc cancaagtta tggacggtca tcggcattga tcttggaaca acctattcat 240  
gtgtcggngt ttacaagnat ngncnnnntt gaaatcat 278

<210> 3877  
<211> 184  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558679H1

<400> 3877

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acggaaagct gtttccgtnt gctgnttttn ttagatgggt gtcgtatgnc aacgatggan 180  
agca 184

<210> 3878  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558680H1

<400> 3878

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aaattcaaatt ccccttctct tgaaattgct tcaggttccg aactcgcaca ttaaaacgac 120  
gctggatcag gaaatggctt cccttcaaag ctcgcaacgt tcttgggact tcctattacc 180  
tctctctccc cttcttctct cgacaaagct cgattgatct tngaaggatt ttgganaana 240  
tgctnaaaga naatgagaaa gatcgagatc tcttctctgc 280

<210> 3879  
<211> 94  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558681H1

<400> 3879

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taaatgaaag ctaaagttcc ctgnagaaga tggt

94

<210> 3880  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558682H1

<400> 3880

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nnnnnnnnnn nnnnnnnnacc tcgtgggaga accaaggcga caccgcgtgg ggaactgaag 120  
aaggtggcca cgaagaaggg gggttcgctg aaaaagctga ggaagataag atcttcggtg 180  
ggaacttgcc tttcgacatc gacagcgaga atttggcgctc gctcttcggg caggctggca 240  
ccgttgaggt tgctgaggtt atttataata gggccact 278

<210> 3881  
<211> 227  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558684H1

<400> 3881

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aatatgtacc gagaagaana cgnttntgnc agttgaanac atcattgctn tgattggtga 180  
taagtgcgat ggagttattg gacagttgac tgangactgg ggagant 227

<210> 3882  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558685H1

<400> 3882

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agtacttggt gaagatgcac ggaggcacct angggggtatt catgaagttg ctccaagagc 120

aagaggaaaa gtggganctc tacaanctcg tccaaggaga gttcccggng cagcatgact 180  
 tgcctctgct acgatggctt tgtcatcagt ggaagcngct atgatgcaca tgcnaatgan 240  
 ncatggatcc tgantcatt gctctcgta tcaaatt 277

<210> 3883  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558686H1  
 <400> 3883

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 gaaacangag ccaaaccat ctggccactg ctattnagag gcnaagttgg tgctgctgct 120  
 nttnatgtta gtcctagang actcattgtg gtagctgctg ctgcaccaa gaagtcattg 180  
 ctccctggtg tcagangngg tggnaacctc gtngaccag aatggcttga nggatcgcta 240  
 ccaggtgact atggctttga cccactaggn cttngga 277

<210> 3884  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558689H1  
 <400> 3884

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 gcaaaaggca aagatggctc gcgagaagaa catcgagaag cagaaggccg cctcaaaggg 120  
 aagccagctg gattcaaaca agaaagcaat gtcgatccag tgcaaggtgt gcatgcaaac 180  
 atttatgtgc accacatcgg aagtgaagtg tagggagcat gctgaagcca aacaccctaa 240  
 atctgatgtg tatgcttggt ttcctcatct caaaaag 277

<210> 3885  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558690H1

<400> 3885  
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actacgaaga ggaagaagaa aaagctcccg attctgctaa acccggttgc gaatctggca 180  
agaagggtta tgttggcatc catagtccgg gatttcgaga cttcctgttg aaaccagagc 240  
ttcttcgagc cattgtggat tcaggatttg agcatcc 277

<210> 3886  
<211> 275  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558691H1

<400> 3886  
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gcggttcaat ggacagtttc ttgcagcagc ttctcaagga cacgcacgcc tgcacccaca 180  
cccacacctg taaccctccc ggccccgatt tctcccacac tcacacgtgc tnccatgtcc 240  
acaccaaaat cgtccccgcc cctgaggagg accat 275

<210> 3887  
<211> 274  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558692H1

<400> 3887  
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gggaaagaag ggtggcaaga agaaanccgc tgatcccttt gccaaagaag actggtacga 120  
tatcaaggcc ctttccctct tccaggtcaa gaatattggc aaaaccctcg tctctcgta 180  
ccagggaacc aagattgcat ccgaaggact caaacatcgg gtttttgagg tctcattggc 240  
tgatctccaa ggggatgaag accactcctt caag 274

<210> 3888  
 <211> 273  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558693H1

<400> 3888

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 ggggtccagg ttttgccacc actcctcaaa tttatgaatg tcatggcagg gaagaagaat 180  
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<223> Clone ID: 700558694H1

<400> 3889

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 gtgccgctgt tgggatctgt ggattccant tggttcgtaa tatctgcac aaccctgaag 180  
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<210> 3890  
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<223> Clone ID: 700558695H1

<400> 3890

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 ttggcagccc tgccacgcag aatatgtgct ccaagtgcta ncgcnatttc cagctcaagg 180

agcagcaatc ttccaacgcc aagatgggtc tcaatcagtn gctgggtcct tcaccgccac 240  
gggtgatttc tcanncgteg tcttcttctt cggc 274

<210> 3891  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558701H1  
  
<400> 3891

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caactccttc gaactttgta acacacaatg gcaaacgaag aggggtgtggc agggtaagag 180  
ttgctgctga ggaaaaatca ttttctacga gtgacactgt tacagatgac tactatgcag 240  
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gana 304

<210> 3892  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558704H1  
  
<400> 3892

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<210> 3893  
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<212> nucleic acid  
<213> Glycine max



<223> Clone ID: 700558711H1

<400> 3893

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acttggtgggt cacacatcag tactcaaggg tacctgtttt tgagcaacgt gttgataata 240  
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<210> 3894

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558712H1

<400> 3894

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acggcataga tccgacgggg aagtacgtcg gnaactcaga tctgcaactc naggcgtga 180  
acgtctacta caatgaagcc tcgtgcgggc gcttcgtgcc acgcgcgggtg ctgatggacc 240  
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<210> 3895

<211> 302

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558714H1

<400> 3895

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tggtgcccgt actccggagg tgaaatgcgc aagttggagg cttgctgtgg aagcacacaa 180  
catctttggc tttgagacca ttctgaaga gtgcgttgaa gcaacaaagg aatacatcca 240

tggcgaacaa tatagatcag actccaaaac agttaaccaa caagcttact tttatgccag 300  
ag 302

<210> 3896  
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<223> Clone ID: 700558715H1  
  
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atgcttccac tgggtcggct atgccatcac caaaatccta ttcagctagt ggacttgaca 180  
tgacagcgnt gagtccattg gctcttagtt ccacatcttt gccgatgncc aactgtttca 240  
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aaciaa 305

<210> 3897  
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atgaacactg gctatggtgc ccgtactccg gaggtgaaat gcgcaagttg gaggcttgct 180  
gtggaagcac acaacatctt tggctttgag accattcctg aagagtgcgt tgaagcaaca 240  
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tacttttat 309

<210> 3898  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558718H1

<400> 3898

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cctggcattc 130

<210> 3899

<211> 303

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558719H1

<400> 3899

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acggcaagga ctaccaggag ccggcgccgg cgccgctggt tgacccgacg gagtttacgt 180  
catggtcggt ttacagagca gggatagcag agtttgtggc cacttttctg tttctctaca 240  
tcaccgtctt aaccgttatg ggagtcgccg gggctaattc aagtggagta ccgttgggat 300  
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<210> 3900

<211> 301

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558720H1

<400> 3900

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tatacctaag ggtgccgttg aaggttaccg tattgctggt ggccccctcg gtgaggtcac 180  
tgacccaatc taccaggtg gcagcttcga ccattgggc cttgctgatg acccagaggc 240  
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g 301

<210> 3901  
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<223> Clone ID: 700558721H1

<400> 3901

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 cttggttgct gagcttccat tggaggagca ggaacagtgt cagaaatctc aaagtgatgg 180  
 gccagaaaac ctcatgtctg ttgaggaacc ttattcattt cctccctttt tggatttaga 240  
 taagaagtca agggaaattc agaatcttca ggtcaagaat gaggcagttg gtatgcataa 300  
 ct 302

<210> 3902  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558722H1

<400> 3902

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 tcaactccgc tccctccggt tccggtctgt acagtgcccg cgtctgcac aacctcgctc 180  
 tctgtttctc tcaactcactc ctggtcggcc acggccaggc agaggctctc ctctcacaga 240  
 acaagaccca ttttccggaa ttattcctct gcggttccaa aattacagtg gtg 293

<210> 3903  
 <211> 302  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558724H1

<400> 3903

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gtacaccaat ggggtgattt cttggtactc tgtcatctct atctgccacc aagctaggct 180  
ctatagctat tgaagctgct cttaaaaggg ccaatgttga tccatccctt gtggaagaag 240  
tattttttgg gaatgttctt agtgctaatt tggggcaagc tcttgcaaga caagctgctc 300  
tt 302

<210> 3904  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558725H1  
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cgcgaaatgaa gggagaatta gagttgccac cagggttcag atttcacccc actgatgaag 180  
aattggtgaa tcactacttg ttaggaagt gcgcgggtca accaatcgcg gttcccatca 240  
tcaaagaggt cgatttgtag aagtttgatc catggcagct tccagaaatt ggctactacg 300  
gcg 303

<210> 3905  
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<212> nucleic acid  
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<400> 3905

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cgaaaattag ctttgcgctg ttataattca gtncgaagga ccaggatgtg taccaagtct 120  
acagcgctc agcaatcttc atagcctaaa agtaatgcgc ggttgtgaac ttctattaga 180  
caccaatgcg ttncctcatca aatcttacca ngctaacctt gaaggatcta catgcattcc 240  
gtgatcccca atctttaatg aagacactag ggcgacttcc caaccttcaa atcttgaaag 300  
tagt 304

<210> 3906  
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 <212> nucleic acid  
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<223> Clone ID: 700558727H1

<400> 3906

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 gacaacgtca aggccaagat ccaggacaag gaaggaatcc ccccggaacca gcaacgtctc 180  
 attttcgccg gaaagcaact tgaggacggc cgtacccttg ctgactacaa cattcagaag 240  
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<210> 3907  
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<223> Clone ID: 700558728H1

<400> 3907

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 gtctgaaccc acgttcccag tatctttctta totgcgcgag tgggtgactgc cccatttgcc 180  
 ttttcgaacc caaaacactt tcttttcttc aaagatggat gctttatcta agaagaacga 240  
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<210> 3908  
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<223> Clone ID: 700558729H1

<400> 3908

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gcgtcactac aagcagcagc tactttcatg caaccaccca agttgagcag gagcaacact 120  
 ttgcagcaaa agtctactca gtccatttcc aaggcttttg gtttgggaacc tgttggagct 180  
 aaaaagggtca catgctccct tcaggctgat ctttaaggact tggctcacia gtgtgttgat 240  
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 catggcacca ggcncatccc tcgcnccggc gccggcgccg ggaaccggga ggcccgaagc 180  
 accacttcaa cggcgagcgc cagggtcaagg acttcatcca cacactctta cattncggag 240  
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 ggc 303

<210> 3910  
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 cctctctgga actaagctct ctttcaagcc ctctcgccac actgtcaaact ccaagaactt 180  
 caggagtggg gccgtggtag caaagtatgg tgacaagagt gtgtactttg atttgaggga 240  
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<210> 3911  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558734H1

<400> 3911

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 tcagtttgcc tgtggttgat ttgaggaaaa ctgctgttgg aggcatnta tatgtgtcag 180  
 tgntttcagc naacaanctt tctaggagtt gcttcnagag tagcccatct ttgaggcaac 240  
 gaaatgagca cgatcaatgg atattcagaa aacaactgga tgacaatgga ctacag 296

<210> 3912  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558736H1

<400> 3912

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 ttctctttct ganaccgttt tcaactctca agcagcgcac accgctcgga acctntttca 240  
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 atg 303

<210> 3913  
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<223> Clone ID: 700558737H1

<400> 3913

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tccatgactt gcaaccggat tncatcgtca ccgacatgtt ccanccttgg agtgtcgntg 180  
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 gttttacaga tgcttatggg aggaggtggg tcattctcag cagggggggcc tggaaaaggg 180  
 atgcactcaa ggctatatct taatgtgctg aatgaatatc agcagattca atctttttct 240  
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<210> 3915  
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 ggtggcctat ctgtagcagt tcctggagaa cttgctggcc ttcagtaggc gtggaaacaa 240  
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<210> 3916  
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 <212> nucleic acid  
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 <223> Clone ID: 700558740H1

<400> 3916

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caattttccg gccagaaacc ggcgagggtcg ccggagaaat cgagcttctc tcagacttgt 180  
agcctgttga gtcaatacat caaggagaag ggtagcttcg gagatcttac cctcggaatg 240  
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<210> 3917

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558741H1

<400> 3917

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ttggctagct tccaggtgct tattaaccaa ctcaaggatg ttgctccaac catacagaag 180  
tccatatctg agtgtacaga aaaggttaac tgtataacct ccaatttacc tccaacgaac 240  
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<210> 3918

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558742H1

<400> 3918

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gcttgaagcc gtagaaaatc aaaatgggat taggaattac taccatggga atcatattgc 180  
agganccaat ctcaagtaca ccagtcacag taaatttgca tctaaattgc aggccagaag 240  
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<210> 3919  
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 <223> Clone ID: 700558743H1  
  
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 cagctatatc acccttccat tatatgctct tgtaactcag atgggttcaa ggatgaaaac 180  
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<210> 3920  
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<210> 3921  
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 <212> nucleic acid  
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 ctcaacgtat tgtcttctca gtggatggaa gtccaattag ggagttcaag aacatggagt 180  
 caaagggtgt tccattcccc aagaaccagg caatgaggat atactcaagc ctgtggaatg 240

cagatgattg ggccacaagg ggaggtcttg ttaagacaga ttggacacag gctccttt 298

<210> 3922

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558746H1

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caagtttggg gaagctgtgt ggttcaaggc cgggtcccag atcttcagcg aggggtgggct 240

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ttctcttgca acctagctg ctgttcaacc agctgcgctc aatggccttg ctggaagtgc 120

cctctctgga actaagctct ctttcaagcc ctctcgccac actgtcaaat ccaagaactt 180

caggagtggg gccgtggtag caaagtatgg tgacaagagt gtgtactttg atttgaggga 240

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<210> 3924

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<212> nucleic acid

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<223> Clone ID: 700558748H1

<400> 3924

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 gacatgtaca ctcaattcct tagacaagat taccaatttt agagggggcaa ctcacagcc 180  
 tttgttacia ttatcaggtc gtctgcaact cctgacatca cagattgaga aggtttctcc 240  
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 aacagctatt ccgagcctt ctgatttcaa gacatgggat gggcaaaaac ctatttctgt 240  
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 aaga 304

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 <223> Clone ID: 700558751H1  
 <400> 3926

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 ccacattacg cccttcctgc ttcgcaaccc ttaacactcc ttcttctcct tctcttcat 180  
 cttccttccc ctctctcatt caagacaggc ctgtttttgc tgccctgcc cccatcatca 240  
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<210> 3927  
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 gatccgatcc acccaaacta tccctaannc ctaaaaccca aggccactgt tacatgtaag 180  
 gccaccctgt ccactaccct ggagactagc atcnnnnnnn nnnnnnnnnn agatgaccaa 240  
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 cttgaaatgg atgaggagta tgaaggaaat gttgaggcta ctggagagga ttattcagtg 240  
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<210> 3929  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558755H1  
  
 <400> 3929  
  
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ttgctggatt gctatttggt gctactacta gagtcaatgt ctccccctct cttgttttgg 240  
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<210> 3930  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558756H1  
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gtcttcgcna acaccaaccc caagttcccc actatcctcc aaaactacat ccgaaacgcy 240  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700558757H1  
<400> 3931

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gcctcaagtt atctcattct tctgtttcat ctatcccttc atctttcttca ctcaaaggca 180  
ccattttcgc caaggtgaat aaggntttca aagccaccga attttacgct gaaagatcag 240  
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<210> 3932  
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<212> nucleic acid  
<213> Glycine max





<210> 3935  
 <211> 298  
 <212> nucleic acid  
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 cagtgggtggc aacccatgca gaaaccttgc cccctgaagt ttactggaag tcgaagcttc 180  
 ccaccactcc aatgccgaaa gccattacag atatccttca cccagatttg gcagaagaca 240  
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 taagggacta caagacaaga tcaaactggg tcctattgac ctacaaaaca ggcctgcttg 180  
 gtataaggag aaagtctacc ctgaaaacaa ggtgccatca ttggagcaca atggaaagg 240  
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<210> 3937  
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tgcaggcccg gttcggggtt ggcaagaaga aagccgccgc cccgaagaaa gtttccaggg 180  
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 gatggccaaa gctgataaac aaacaagact cagtctcacg aggtggagtg cggattggaa 180  
 aagtgtact gttctatatg agcaggcagc taatgggttt agagttgcca aggactatga 240  
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<210> 3939  
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 atgaaaaaca aggaaaagtt caggtagtgg cttcgccctt gatacgctt accaacaac 180  
 caaatgcaac aattgaggac attgggagcc cagaaaaact gattgcttct cttggaccat 240  
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<210> 3940  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558768H1

<400> 3940

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ttgaggggaag aaaagaccaa tatgctgggt gtggccactc ttactttggg ttcattccacc 180  
acaatggtgg ctgagaacca tgctcaacaa catgccacca ctcttgcttc agccaatgga 240  
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<210> 3941

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558769H1

<400> 3941

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ctttgtgaaa aggcattctca ccggagaatt cgagaagaaa tatgagccaa ccatcggtgt 180  
ggaggttcac ccattggatt ttttcacaaa ctgtggaaag attcgatttt actgctggga 240  
tactgctgga caggagaaat ttggtggcct cagagatgga tactatatcc atggaca 297

<210> 3942

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558770H1

<400> 3942

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acaggnacng ctacgannaa agggaaagtt tcttctctn nttcttctnc aactogtacn 180  
cagnanctag gatccattca cancaccttc ccccaaagan tcatcaattc taaggcacca 240  
ncaatcgtgt gggacgcacg tgantttctgc gggtttcatc tcttntctca acatagg 297

<210> 3943  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558773H1  
 <400> 3943

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 nntngaaccc caaaactant atcttctttt cccctcgtnc tctgctgtgc ccactaagga 180  
 acacacagtc acagaccag gaaattcaac tccaagaaca cgccgctcaa cttegatttc 240  
 aagggtaca tgatcgcaa ggcccacacg gtaaaccaag ccttggagcc gccattgcgt 300  
 tga 303

<210> 3944  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558774H1  
 <400> 3944

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 ctgcatact ggagttgaaa ggaagcatag acattggaga acgtcatgcn gatggagatc 180  
 aaggcgatac caactctgct gggaagacag caaagaagat ctatgacaag aaatttgcag 240  
 aactttcagg gaatgacata ttcaaagggg atgcaccacc ttcattctgct gacaaat 297

<210> 3945  
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 catggccgac ggtccggcga gtccaggcgg cggtagccac gagagcggcg agcacagccc 240  
 tcgctctaac gtgcgcgagc aggacaggta cctccccatc gctaacataa gccg 294

<210> 3946  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558778H1  
 <400> 3946

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 gaatctgaga actcactcat cgaagccctt cttggcatcc aaggacgcgg acgttcttct 180  
 tctcgtcagc agctcaatgc tgttgagcgt gctgttcaag tcctggagcg gttagggggg 240  
 gtacctgac cgacaaaatc aaacttgatc gagggtcgct ggcagcta atttca 295

<210> 3947  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558779H1  
 <400> 3947

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 tcttcagaga atcagcgaag tgtgaggtat agggcacggc aacggtggag atggcgccaa 180  
 cttccgctac cgctcctga atttcatgct cactttccaa ctgaagctac gcggcatttt 240  
 caaataccgc ctgagggtca caatatctcc gtggaattga accacttttt ggtcant 297

<210> 3948  
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<223> Clone ID: 700558781H1

<400> 3948

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 gctttttntt ccgagagtga aagtcaagca ccagttgtct catgntctgc caanagcaaa 180  
 agggctccga tgacatacnt tttgtctttt ggtgnctnca ccataacncc agcaccttct 240  
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<210> 3949

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558783H1

<400> 3949

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 catctgaatc tgtaaacgag ggtcaccccg acaagctgtg cgaccagatc tctgatgcag 180  
 tgctcgatgc gtgccttgaa caggaccctg acagcaaggt tgctgtgag acatgcacca 240  
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<210> 3950

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558784H1

<400> 3950

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 tatccctaac cctaaaaccc aaggccantg ttacatgtaa ggccaccctg nccactaccc 180  
 tggagactag catcnnnnnn nnnnnnnnnn nagatgacca aaaacnaaag cccgtggccg 240

aggtgtggcg caagatccac ggggaggaca atgggccggg cttctggaac cgatgga 297

<210> 3951  
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<223> Clone ID: 700558785H1  
  
<400> 3951

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ttgaagatta ctttgagagg agcaaggcca acaaggaatt gaatgacaag aagagggttag 240  
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<210> 3952  
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<212> nucleic acid  
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<210> 3953  
<211> 295  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558787H1  
  
<400> 3953

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ccgtcgcggt ttccaattcn ccggtgttct ctctttcttc ttccctcttc tgctcgaagc 120  
 cctccatcat ctctttcttcg ccggaatccc tctccctctc tctgtcgcac ctcaaactt 180  
 cgaactcttc tacgtcgtcg tcttgtnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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<210> 3954  
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 <212> nucleic acid  
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 <223> Clone ID: 700558788H1  
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 tgcaaatttg agggagtgcac agagcaggct gctcgggcat tggctaactt agctgcccac 180  
 ggagatagta acagtaacaa tgctgccgtt ggacaagaag cagggtgccct tgaggctctt 240  
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<210> 3955  
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 accccatcag gcctcaccat cagagctggt tcctatgctg atgagctcgt taagaccgag 240  
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<210> 3956  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max



<223> Clone ID: 700558790H1

<400> 3956

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gaagatgggt aaggaaaagg ttcacatcag tattgtggtc attggccatg tcgactctgg 120  
gaaatccact accactgggc acctgattta caagcttgga ggcattgaca agcgtgttat 180  
tgagagggtt gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt 240  
gctggacaaa cttaaggctg agcgtgaaag aggaatcacc attgatattg c 291

<210> 3957

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558791H1

<400> 3957

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gcacgtaaag gagcgtntaa nnattcgcag cacgtgttgt tattnnnnnn nnnnnnnnnn 180  
nnnnnnnnngt ggcggcagtn gtagtatntg gaaattgagg nttgagtggg gtgtgtgaaa 240  
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<210> 3958

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558792H1

<400> 3958

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ctggagcttc agtcccagt tcagccttct ttgggaccag cttgaagaag gttattgcct 180  
caagggtccc caacagcaag gtttccggtg gaagcttcaa gattgttgct gtagaagaga 240  
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<210> 3959  
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 <212> nucleic acid  
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<223> Clone ID: 700558793H1

<400> 3959

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 ggtgacacta attttgcaga ctggtttgcc gcagtacaaa tggacaaagc agcttcgggt 180  
 tttgagaaaa tgtattcatt caatgcaact cttctagatg gtgtaaacaa tacantaatc 240  
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<210> 3960  
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 <212> nucleic acid  
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<223> Clone ID: 700558794H1

<400> 3960

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 atggaacagt tgctcatgaa ttcattcattg acttgagagg ctttaagaat actgctggaa 180  
 ttgagcctga agatgttgca aagcgctca tggactacgg ttttcatgca ccaacaatgt 240  
 catggcctgt gcctggcaca ctcatgattg agcctatgag agtga 285

<210> 3961  
 <211> 296  
 <212> nucleic acid  
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<223> Clone ID: 700558795H1

<400> 3961

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cagatgtgga ggtggctagg ttgtttgttc aggagaaagg ggaggttggt tctcagttga 180  
aagctgccaa ggcgagtaag caggagatcg gtgctgctgt ggatcagctt aagaaggcaa 240  
aggagagttt tgctaagggt gaggagaggt ctaagcttaa gcctgggatt cccaga 296

<210> 3962  
<211> 270  
<212> nucleic acid  
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aaaatttctc cgaagactgt gtattatcgt tatcgttcac gccgttaggt ttgctgttc 180  
ttcctagggt ttattgtgt ccaataacaa gaggaggggg aagagaaaca aaacaanaaa 240  
anaaaggata aagggnnaaa anttagggt 270

<210> 3963  
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<213> Glycine max  
<223> Clone ID: 700558802H1  
<400> 3963

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tattccctgc aaaagagtat aagattgttg ttgtggattg gataacgctg gaaaaaccac 180  
taccctttat aaattgcac tgggtgaggt tgtaactacc aaccctactg ttggtagcaa 240  
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<212> nucleic acid  
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<223> Clone ID: 700558803H1

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 cacgaggtgc agactcaatt gggatattga atttctgtga tggtcacgtg gatatccggt 180  
 tactgctttt ttgtccttaa gttttctttt gttcttctcc ccatgatgat atggtttgac 240  
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 aggactgaag agtacttttg aattccaact tatgggatgc ttntgcttgc tctnttttnc 180  
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 actaatactt attcacagta tgtgactaca tacgagagta ccagggtgcag agatatgagg 180  
 gtgcttccac gctgtacggg ccacacacac tgagtgttga cattcaggag tttacgaagc 240  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558809H1  
  
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 nnnnnnnnnn nnnnnnnnnn atggctgtgt ccctggcggg gttcgcggc gcgtgttacc 240  
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 <223> Clone ID: 700558810H1  
  
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 agtgccttgc ctttttatct ttggggactc tatgtngata gtggaaacaa caatgaactt 180  
 ccaaccantt caaantctaa tttcagacca tatgggatcg actttccant aggaccaact 240  
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<210> 3969  
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 <212> nucleic acid  
 <213> Glycine max  
  
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 aacaatgccg ttaatgcgat gatcggaagt gggttgcagg tgtagacttc tatgcgataa 180

ataccgatgc tcaggcacta ttaaattctg ctgctgagaa ccctattaaa attggagaag 240  
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<210> 3970  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558813H1

<400> 3970

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acgaaatcca gagcaagaca tacttggaag tgaagggact ggaactgcta atcagtgcc 180  
aaccattgaa ggtggagtgg actcatttgc cttcaaggca gggaaataca aggccagaa 240  
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<210> 3971  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558814H1

<400> 3971

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cgcccaaagc tgatgggtct ctaagcttct tgggtgtgga gactgggta gaaaagggtgc 180  
ttataaccaa tctcttgtcg cttttcagat ggggtgtaata ggagagaatt ggacgttgat 240  
ttngtgatct caacggggga taacttctac gacaanggat taaccggatg tt 292

<210> 3972  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558815H1

<400> 3972

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 ctccccacc acaaagaacc caaggagttt gtctcgtgga ccaacttgct gaacttggag 180  
 tccttagctg gaaactagat gctgataacc atgaaaatga tccagagctg aagaagattc 240  
 gtgaagagcg tggttacacc tacatggatg tttgtgaggt ctgccccaaa gtt 293

<210> 3973  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558816H1  
 <400> 3973

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 ctgatcccaa gatcaggatt tatgatgttg gtatgaagag aagggtgttg atgagtttcc 180  
 tttctgtgtc catctggtta gttgggagaa ggaaaatggt tcaagtgagg ccctggaagc 240  
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<210> 3974  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558821H1  
 <400> 3974

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 tcagaganaa ctattggcag cttgagattg gagtacaaac cttgaaagaa ttgaatcgaa 180  
 tacttgagga gcaagtacaa aatcatgcat tcataaatgt agatcttgac actcagctaa 240  
 cagaaactga attanaagaa gctaatacaca aagttttggc atagaag 287

<210> 3975  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558823H1

<400> 3975

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tagtgaatag ccagaatgca aatgggaggg ttgacaaga aatccaagct cactaattag 180  
ttcatccttg gatggtacaa gaaattatgc attggggaat cctattgtgg aaactgccca 240  
aaattttgac aatgtttttc caccataatg tggttctc 278

<210> 3976  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558826H1

<400> 3976

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atgctgctgg tgggtgaactc ttcgagagga tatcaatgct ggtcgattga gtgaagatga 180  
ggcaagattt ttctttgcaa caactaa 207

<210> 3977  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558827H1

<400> 3977

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ccatggcaca tgcagctatc acgtgcgggc aggtgcgaat agcctgatca attgcatcgg 180  
ttacctccag aacggaggaa cgccgccgtc gggatgctgc aacggagtga agagcctcaa 240  
tgccgccgcc aagaccaccg ccgaccgcca gacggcgtgc aatgcctcaa 290



<210> 3978  
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 <223> Clone ID: 700558828H1  
  
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 attttgtgaa gcaatggagc tggccccaaa agagagttag aatcttacat tgatggggca 180  
 ccaaaaaactg ttgctgatca gagggccagg aagatcgcta ggttcaaacg tcagagagct 240  
 gcagaatcaa agttgttgga aataaaagag cgaaaggaac gactgggcg 289

<210> 3979  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558830H1  
  
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 tttccaccat ttctgatgac agaggagagg agccagctat gctggtgtac ccatgtcttc 180  
 cattattgaa aaaggttatg gtgttggtga tgttatctct gcttttgtgg tttaaacgaa 240  
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<210> 3980  
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 <213> Glycine max  
  
 <223> Clone ID: 700558831H1  
  
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agtnctttat tgtggaaaca aaataagaaa gtttcaccac aagttctgct aaatttagag 180  
 tgatggcnat taagtctgac aatagcatca tcaacaggct agagggtcta cttagtittgg 240  
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<210> 3981  
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 <223> Clone ID: 700558833H1  
 <400> 3981

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 gccgccgaag ctggctccgc cgtcggagaa ttactcagaa caaccacgtg tcattcctgg 180  
 ggaagagacc gaagaggaag tacgttagga ttcggaggaa cagtggatac gtgagaaaga 240  
 ataacggaga cagtaacgga aaaagtaacg gtaacggtan gatgag 286

<210> 3982  
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 <213> Glycine max  
 <223> Clone ID: 700558834H1  
 <400> 3982

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 gattctgcag atgaaccctg ttctccggt tttgtccaag accttcgacc tcgtcgacga 240  
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 <223> Clone ID: 700558835H1

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 cagtttatta cttttntctt ttggttccta gctagtttcc tagggacatt tattagcatt 180  
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<210> 3984  
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<400> 3984  
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 gtctgagtgg gtgaagggac aaacacttcc caaccttctg ctgcatcagt tgtgagatgc 180  
 aacccaccca ccccatcagg cctcaccatc agagctgggt cctatgctga tgagctcggt 240  
 aagaccgcga aaacagtggc ttcaccaggg aggggtattt ggcc 284

<210> 3985  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558837H1

<400> 3985  
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 cgccaaacag ttccctacca atgtgactga tggatctgtc acaccctagt cacttcaagt 180  
 cttctaaagg tgggtctcaa aggatggcat tggagctgtt ggacgcttat tcattgggtgg 240  
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 <213> Glycine max  
 <223> Clone ID: 700558838H1  
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 gctagggcaa gtggaaatat ggaggtacat gacatgcttc acggactccg tggccttgaa 240  
 agctgtcata gagcttcgta tagcggacat actagaccgt tatggta 287

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 <212> nucleic acid  
 <213> Glycine max  
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 tttaatnngt gctttaaatt cactagcgtg tcaggaactt atattggttg gtttttggca 180  
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<210> 3988  
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 <212> nucleic acid  
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 gattccactt ccggtctctgt gggttcggag tcatccgaa ggtgtttcgg aagaacctta 180  
 ctccggagtaa gaattataac cgcaaaggat ttgggtacaa ggaanagacc ctccaatgca 240

tgaatcgca gtacaccagt gatattcatta agactttgaa gaaang

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<213> Glycine max

<223> Clone ID: 700558843H1

<400> 3989

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ctttagcaaa nctcaactca gacgctctca ctagcactac caacttcaac caccatttca 180  
ttgctcgctc tcttcgcccc tccaaacgaa gccaaagccg ctgtcagcat cgccaaggac 240  
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<210> 3990

<211> 172

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558847H1

<400> 3990

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<210> 3991

<211> 172

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558848H1

<400> 3991

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tcctctgcgc cttctctccc cgcgctcgcg caagcacctn tactctctcg tc 172

<210> 3992  
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 <212> nucleic acid  
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 <223> Clone ID: 700558849H1  
  
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 atttacagtc agtggggaaa gaaattcaga tggatgaacta gctgatgcaa caaacatgag 180  
 cattattcaa gtaaggaaag ctatagaggt tggccgagct gcaagaaaca agctncataa 240  
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<210> 3993  
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 <212> nucleic acid  
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 <223> Clone ID: 700558850H1  
  
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 ttctccagag gagtccattc ctagcagacc atagacaagc tccgatcaca actggatgat 180  
 gctatagcta gtgaatgcc attttgtggc gacttgatga tccgtgagat ttctttgcct 240  
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<210> 3994  
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 <212> nucleic acid  
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 <223> Clone ID: 700558851H1  
  
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tttacttcaa tttggagcca ccaaagtagc cagagattga aaaggtttgt gaatggatcc 180  
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<210> 3995  
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 <212> nucleic acid  
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 <223> Clone ID: 700558853H1  
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 agggtagctc aagaaggctt tctatggtca agaggaccaa cttttggcac caaggttgcc 180  
 aactaccctc catgccccaa cccagagctg gtgaagggtc ttcgtcccca cactgatgcc 240  
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<210> 3996  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558854H1  
 <400> 3996

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 tttgacacta aacaagtgct atcaagtgga ggagaaggca tgtgggggggt tctggagtta 180  
 ggtgcatggc tgtgggggaa gcagcaacca ctgggacaaa gaagagaagt ggatatgagc 240  
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<210> 3997  
 <211> 285  
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 <223> Clone ID: 700558855H1

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 cccgcgagtn aaattccctc ccgagatccn attgcttcca cgtcgaatcg gtgnacntac 180  
 ggtgtgtttt atncatnagn naagatngga atgcaagttt nantgatnaa tactnataat 240  
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<210> 3998  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558856H1

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 catattcttc aggagtctac tgctaaagag ttaatgaaaa tcccagggca ggatgggagg 180  
 ctgctataaa tcctcgtttc tccaattata cagttgaaca atttaagcgc cttcttgagg 240  
 tcaaaccaat gcctaagaag gaattagaag tacacctgta tatc 284

<210> 3999  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558858H1

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 aaatttacca aatatgtgac aagcgttcgt ttcctgcatt attgagcaca agcatgatgc 180  
 aggtgctgtg atttgtgatt cggatctaag ttcacagctc aagtcagcag ottattctgc 240  
 actcaagaag atggagggtg acattcagga tgaagtgcc aat 284



<210> 4000  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558859H1

<400> 4000

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 gaataccctg cagaactggg ggtggtacta gtcgcattgc attaacatct atactatctg 180  
 ttcttgctgc actgatttca gtaaaggatc taaaagcttt gagactgggg tttaatatgg 240  
 agcttatagc tattggatgt tcagcanttt tgtcttatcc tttc 284

<210> 4001  
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 <212> nucleic acid  
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<223> Clone ID: 700558860H1

<400> 4001

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 gaggagtttg agctaaccat ggccttgatg gttgcacctc actcaaggat atcactcgtg 180  
 atcacattgt cactgattgg gaccaacctc gcattcttcc ccgcgcacgc caagatatga 240  
 aaaatttgct cctcattgag ccaagtttgt ataagtgtg 280

<210> 4002  
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 <213> Glycine max

<223> Clone ID: 700558861H1

<400> 4002

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 cctgcgcagg acatgatacg cttggtggca tgcgttaacc ttgattgact ctttagacac 180

tttggcttta cttggtgacc gccaacgatt ctctgcttcc gttgaatgga ttggtaaaaa 240  
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<210> 4003  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558862H1  
  
<400> 4003

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ttggacatgt cgactctggg aagtcaacta cactgggtcac ttgatctaca agcttgagg 180  
tattgacaag cgtgtgattg agaggttcga gaaggangct gccgagatga acaagaggtc 240  
attcaagtat gcctgggtgc tcgacaagct ccaaagctga cgtgaaa 287

<210> 4004  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558863H1  
  
<400> 4004

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ttggtcagca tgtctttttc actgtgggga ctattccctt gctggaaaat ctgactgatc 180  
atattttcca agtgttcctt ttgatctttt atccagtttg catgctatct gtttgcaaga 240  
ttaggaatac agaataatcc caggcatgcc taattgtact ttga 285

<210> 4005  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558865H1  
  
<400> 4005

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 accaataata nactntcaaa ctctgtcact tganacgaaa aatgcatcac tctggaatgg 180  
 ggattaggtg ctctaaata gagtatttca taataacact agtgattggg atcttgagat 240  
 cttagagtag cantaatctc tctcataaag ttntttttnc 280

<210> 4006  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558867H1  
 <400> 4006

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 atggtaacaa ctgcatttag tggcccacca acttccatag antggatttt tnggtattgg 180  
 ttccagtttc cacttagttc ctctgtngat tnatgtgnat taagagatct tctgagggct 240  
 tgggttcttc tagganttat gttagcagta ggatagta 278

<210> 4007  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558868H1  
 <400> 4007

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 tatctgacca nacattccaa atactattta taggattttt ttgaggatca caacttcaca 120  
 agtgtttatt agtccaaact attaaggacc ctaagttaga taacagggtga atttataaga 180  
 aaagtttgaa gagaatagta taaagccgct ggcacctgag actcaatttc aaacgctgtg 240  
 ttgtgttctg aactgggttaa gggcagctcc tccaatctcc 280

<210> 4008  
 <211> 275

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558869H1

<400> 4008

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tactcgctt cccacantgt ctaaagcnag ccgatganc gtttcgatcc gagtcaantc 180  
gcctcgctcc gattctncac acagctggac cntccattc actccctcgg gtttctctac 240  
atcctagaag cttccatgac cggtcgggtt accaa 275

<210> 4009  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558870H1

<400> 4009

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tgttggcgaa ccgaagagga ggacaaccgn tgaacgccga gcaccattc gcgagcanca 180  
angccaagtt cgccaagacc tacgccacca aggaggagca cgatcatcgc ttccggcgtc 240  
ttcaagtcca acctccgcag agccatgctg cagcceaact cgac 284

<210> 4010  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558871H1

<400> 4010

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aagagggtaa cacgtggaca atgccaccgt ctggggcggt gagcagcgaa accgccgccg 180  
tcttcgngc tcttactctc tgttgetcac ctccacctcc ctntcgtac tcttctcgt 240

actcgtgctg gtgtttctgc tcacgtggt tccgacgtgc att 283

<210> 4011  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558872H1

<400> 4011

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ccatgtttctc tatgttttggc ttctttgtca ggccattgtc accggaaagg gtccattgga 180  
gaacctcgcc gatcaccttg ctgaccctgt caacaacaac gcctgggcct atgccaccaa 240  
cttcgtcccc ggaaagtgag cgtcaaagaa cgaaatgact ttg 284

<210> 4012  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558873H1

<400> 4012

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gcacatgcag ctatcacgtg cgggcaggta cgaatagcct gatcaattgc atcggttacc 180  
tccagaacgg aggaacgccg ccgtcgggat gctgcaacgg agtgaatcgc ctcaatgccg 240  
ccgccaagac caccgccgac cgccagacgg cgtgcaatgc ctca 284

<210> 4013  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558874H1

<400> 4013

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 ataagagagg taggaattcg aggaataatt caaggggtgct gcgaagaaat gggaggagaa 180  
 tcaacggagg tggaagtgtg agtgggatag ggaaagattg gagcttgatc ggagattgaa 240  
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<210> 4014  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558875H1  
 <400> 4014

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 catctgctga tccaagggat aatttgggtcc atttgctccc ctccaatttg agtcaccagt 180  
 tgcncagctt ttggaacaaa tctcaaatac ccatccgcat ctactaccag caggccattg 240  
 atcaacaact agagaatctt cagactgcta gagatgctca gaatg 285

<210> 4015  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558876H1  
 <400> 4015

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 gctccatttt gctgctcttg aattagcttt cgtggctgcy gaggaccctt atagattctt 180  
 cgactggacc attacctatg gtgacattta tcccctagga gttanacaac agggatttct 240  
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<210> 4016  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558877H1

<400> 4016

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 ttagcttcaa aggggtgtcaa agccacagtg ccaccacca ctacactgcc aactccatca 180  
 atgcacccaa catcacgggc gaagccatct ccgatgggtt cgaccaagcc ggcttcgccc 240  
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<210> 4017

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558878H1

<400> 4017

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 cttcaccaat taccacatgc ttttggtggg aacactccca ttctcatggt gaccatggag 180  
 atcatgacca tcatgatagt tctggacatg atcatgcaca tnccttagcc gatctttcca 240  
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<210> 4018

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558879H1

<400> 4018

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 ctttacaaga ttttctaggg gtaaagtcaa ggctatatct ctgaatttgg tcttacatcc 180  
 ataagccaag aaccagatga tgataatatt gccaaaggga atgcaggatg cttgacagt 240  
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<210> 4019  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558881H1  
 <400> 4019  
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 agatccagga caaggaagga attccccgga tcagcaacgt ctcatcttcg ccggaagca 180  
 gctcgaggac ggccgtaccc tcgccgacta caacatccag aaggagtcaa cccttcacct 240  
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<210> 4020  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558883H1  
 <400> 4020  
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 ctattgacat atgcatagca gttccactga gaagggttg atgactccaa taataaaaaa 180  
 tgctgatcag aagacaatat ctgctatctc ctgagaggtc aaggaaactag ctgcaaaggc 240  
 acgtgctggc aaattgaagc cacatgaatt ccaagggg 278

<210> 4021  
 <211> 278  
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 <223> Clone ID: 700558884H1  
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aggcccttct gtcttcgcaa ccgtagcann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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 ccaactgtga gagaggatat ggcaaaggaa tngagcaa 278

<210> 4022  
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 taagaagaaa ataagttcat atacatgtat atttttcaca ttttgggccc aatctttgag 180  
 atttatacta ttaagttaat gccattaag ttacgactt ttgctttaaa actcgttgaa 240  
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<210> 4023  
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 <212> nucleic acid  
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 <223> Clone ID: 700558886H1  
 <400> 4023

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 gnccaccctt ttgtgccaga ggttgtaaag cagtggatgc cttgcattca gagttccggg 180  
 ctgtggataa tttggttgcg tgcaatacca cccgtgtcct taaagctttc cagaatgctc 240  
 gagttggatc tcatcacttt ggtggttcca ctggtatggt 280

<210> 4024  
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 <213> Glycine max  
 <223> Clone ID: 700558887H1

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 aacgtcaagg ccaagatcca ggacaagaag gaatcccccc ggaccagcaa cgtctcattt 180  
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<210> 4025  
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 <212> nucleic acid  
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 tgattctcat ccaccataa atcttgaact gaattgagta catttcatta tgaattttcc 180  
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 cgtcaacggc gacggttgcg tggacatgga cgagtttggg gagctgtatc agaccataat 240  
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<210> 4027  
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<223> Clone ID: 700558890H1

<400> 4027

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 tcatatgatg aagtctatga tagttttgat gcaatgggccc ttcaagaaaa tcttctcaga 240  
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<210> 4028  
 <211> 280  
 <212> nucleic acid  
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<223> Clone ID: 700558892H1

<400> 4028

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 aatttcattc agatcatggg cttcgctccc tactatactt ggtgttagag aacatgtctt 180  
 cactggcant gtctcatctt tagcatcatt tatgtccaat caagaaacta gttttgtgac 240  
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<210> 4029  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558895H1

<400> 4029

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 ggtggtgtca agaatgcttc gcacctctta aatatgattc catgctggga acttttaaag 180

cagatgtgaa aatactggac aatgaaacca tcaactgttga tggtaagccc atcaagggtg 240  
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<210> 4030  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558896H1

<400> 4030

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 ctgtagatat gccacttgac agcaggtctt tgctattcct cctgggtata atgcccccca 180  
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<210> 4031  
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 <213> Glycine max

<223> Clone ID: 700558901H1

<400> 4031

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<210> 4032  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700558903H1

<400> 4032

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ccaaaaacag caacacagtt tgtgtgaaga gtcattatc ccctacggtt acccctgctc 180  
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<210> 4033  
<211> 295  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558904H1  
  
<400> 4033

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aaaaaagaag aaagaaaaaa gaaaagcact aaaaaaaaat gaagaagggt ttctcccttg 120  
tgctgctgat tcttctgatc cagtacaaca acgttgtaa cgcctacaac aacaaaaact 180  
gtgtcacaga ggattgcctc atcggcaaca aggatattga atcagagttc tactttggat 240  
cccatgtggc cagaatgctc tacgatgtga gccaatctgt gaggggcaaa acagg 295

<210> 4034  
<211> 296  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558905H1  
  
<400> 4034

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tgacttaag tgcccatnca ttgaagtgc tgttggtgat atctctaaat nccggcattg 180  
cagcctggaa cagtgaccag cttctatct atgaacctgg cttgatggg gttgtgaagc 240  
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<210> 4035  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558908H1  
  
<400> 4035

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 cttcccttca ggccagggat catattgcgc actatttgtt gcaccatggg agggctggga 180  
 ctggcttttt ctagtctcta ggttctcttt cgggttttct gcattnttta gaactttact 240  
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<210> 4036  
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 <212> nucleic acid  
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 tgtctccatg ggaactggga agtacaccat gggcaatgat ttgtggtatg gaccagacag 180  
 agtgaaatac ttgggaccct tctcagctca gacccttca tacttgaaag gagaattccc 240  
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 ctcaccacta ctccgcaaca acaaacccgan ggcgatgatg attccctcac ctacctctgg 180  
 cccctccccg cagagttcac ttccggcggc gacactctct ccgttgaccc cgcgctcacn 240  
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<212> nucleic acid  
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<223> Clone ID: 700558913H1

<400> 4038

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 gaacacggtg aagaacggtg tgagccaagt tgctaagcgg actctcacca cagggtgtcaa 180  
 tggagagctt cacccttcaa ggttttgtga gaaggacttg ctcaagggtg ttgataggga 240  
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<223> Clone ID: 700558915H1

<400> 4039

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<223> Clone ID: 700558916H1

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 tcaagtccat ggctggcttc ccaccagaa agaccaacaa tgacattacc tccattgcta 180  
 gcaacggtgg aagagtgcaa tgcattgcagg tgtggccacc agttggcaag aagaagtttg 240  
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<210> 4041  
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 tttctccaga ggagtccatt cctagcatga ccatagacaa gctccgatca caactggatg 180  
 atgctatagc tagtgaatgc ccattttgtg gcgacttgat gatccgtgag atttctttgc 240  
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<210> 4042  
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 <213> Glycine max  
  
 <223> Clone ID: 700558920H1  
  
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 gttgctgcat ctgtaagaat tatctatgga ggttctgtaa atggaggaaa ctgcaaagaa 180  
 ttggccgcac agcccgatgt tgatggattt ttggttggtg gtgcctccct ggaagccgga 240  
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<210> 4043  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558921H1  
  
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 ggccttcagt gcaacctcca aggctggcag attcccttat tctcttggac aagaacctac 180



tttaccagga aatgccgagt ttttgctcca gtgtatggag gaggcaggag tagatggtgc 240  
actcattgtg cagccaatta atcataaatt tggatcatag ttatgtcaca ag 292

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gcaattaaca gacttttnatt tttgtgtaat tgtnaacggg ctaagaanaa aaaagttaaa 180  
gntgtatcaa gtaaaagana aanaaaagta gangtaaaat taaatgtata caaattgttt 240  
catgttgtat gaaaaccgat ttcgtangcc atgatntnna ggtaatagtt aaa 293

<210> 4045  
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<212> nucleic acid  
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tcttttgctt cttgtgatca tcgatgctgt cttgaattta atacagccat ttcaccgttt 180  
tgttggagag gggatgatga cagaccttag ataccattg aaagctaata caattccctt 240  
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<210> 4046  
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<212> nucleic acid  
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<223> Clone ID: 700558925H1  
  
<400> 4046

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gctctggcag tgaaggaagc tgcctgggggt ctagctcgct atnctgcaat ttcacaggag 180  
aacgggttgg tccaattgt ggagccagag atcttgcttg atggtgaaca tgggattgac 240  
aggacattcg aagtagccca aaagggtggtg tcagaggtat tcttctaact ggc 293

<210> 4047  
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<213> Glycine max  
  
<223> Clone ID: 700558926H1  
  
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ttatgatcca ttttcaagga gatggactag atcaaggaat tactatgctg cnaaacctgg 240  
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<210> 4048  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558927H1  
  
<400> 4048

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ctggtcggca aacggacggc gggcgcacgc gtcgcttcta gcccgattc tgacttagag 180  
gcgttcagtc ataatccaac gcacggtagc ttcgcgccac tggcttttca accaagcgcg 240  
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<210> 4049  
<211> 282

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558928H1

<400> 4049

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gttcggctgg tcaagtaa at ggaagcaaa gatacgcaat taacagcgtg tcttatgttg 180  
ccccagacac cctcttaag ctgcccatt acttcaaaat ctccggtgtt ttccgccccg 240  
gaagcatatc tgacagaccc actggtggcg gcatttacct tg 282

<210> 4050  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558932H1

<400> 4050

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tttaagcaaa aatacaaact tataaaactga agatattgca gccccatctc ccatctccct 180  
tttgtactgt tctggccttg caggctgtat aagttatctg acagattgtg caatcattgt 240  
aaacatgtat gctgacatac tttagtgaat cacataaagc aatatgggtt tg 292

<210> 4051  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558933H1

<400> 4051

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attcagcccc aagntcaatg gccggnanc 149

<210> 4052  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558934H1  
  
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 tctatgatca gtctcgagcg gataacaaag atgtctggaa gtttgttctt gggaagcata 180  
 atcttacatc acccatctct tcttattatc gagcagaagt tgttacaaaa tcacagtcac 240  
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<210> 4053  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558936H1  
  
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 aagttcctag ctctaataaa tcaatgantg aaaaatgtgc catagaaatg catagtcaac 180  
 tttgtgatgg ggctgacctt gaaattgaag atntaagaac aactctagat ccaccaactg 240  
 agcaagatga ttctaataca atcnctctgg caattgatga tcttttgg 288

<210> 4054  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558937H1  
  
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 gaccaaatgc actagcctat gctttctaca catgttgagg ttgtgtaatt tgtaatgtac 180

gtaggtcaat gcctctatga atattgacta ttaaaacctg ttttaatttcc actgcagcca 240  
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<210> 4055  
<211> 294  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700558939H1  
  
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acagaattct ctgggctaag atccacttca tgtgtgacat atgctaacga tgctagagaa 180  
tctncctttt ttgntcttgt agcttcccaa ctcaactcca agancaatgg atcatcaact 240  
cctgtgaggg gaganacagt ggccaagttg aangtggcaa tcaatggttt cgga 294

<210> 4056  
<211> 277  
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<213> Glycine max  
  
<223> Clone ID: 700558940H1  
  
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gnnaagctct gcgaccaaatt ctccgatgct gtcctcgacg cttgcctcga gcaggaccca 180  
gacagnaaag ttgcntgcga aacatncacc aaaaccaatt ggtcatggtc ttcggagaaa 240  
tcacgaccaa ggccaacggt gatacgagaa gatatgc 277

<210> 4057  
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<223> Clone ID: 700558943H1  
  
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 aacacaaaca ctctgcattt cgtgcatctc ataggggaag gggagttgaa atatctagtc 180  
 cgaaggaagt gaaggcaacc aatcatgga gcaaacaatga tctgtgcct agtgetgaag 240  
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<210> 4058

<211> 232

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558944H1

<400> 4058

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 cgtgcttacc tttgtgattt atgtgtagat tatatgatca caataattgt tggattagt 180  
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<210> 4059

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558945H1

<400> 4059

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 tctccctctt acacgctctt gataaaccga aacgaancaa tagctatagc atcanacaca 180  
 cacaccaccg ctaggggttag ggtaggggtt ggggggtgttc cgaagtaaca acaatggcgg 240  
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<210> 4060

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558946H1

<400> 4060

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ggaggcagaa cttaatttct tactaagaaa ttttttgatt ntacatttaa attggaataa 180  
tttcttaggt canagaatat ttaacaatgt caaagtatat tgtctcctga ttagattaga 240  
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<210> 4061

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558947H1

<400> 4061

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attgcctcgt ggtccttttt cttctttgct tgccaaaaat cttacacaca caggnatcta 180  
tccaaatggg ttctcaccag caagaaccat ggctattgga gaatgggaaa ccgaggggtg 240  
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<210> 4062

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558948H1

<400> 4062

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ccatggcaca tgcagctatc acgtgcgggc aggtgacgaa tagcctgatc aattgcatcg 180  
gttacctcca gaacggagga acgccgccgt cgggatgctg caacggagtg aagagcctca 240  
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<210> 4064  
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<210> 4065  
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 <223> Clone ID: 700558953H1  
  
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cccattctgg cttctatgtc cccggttctg gagaacttga tagatcgccc acgtaagcat 180  
 cggagctccg agagantaat ccaaataccac ggcgtcccct ggcgacgctg tcaccgcctt 240  
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<210> 4066  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558954H1  
 <400> 4066

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 gggtgataag gatgttcaaa ctgctatcaa gtgcttgaag ctttgaaagg gttgtcatga 180  
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<210> 4067  
 <211> 180  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558957H1  
 <400> 4067

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<210> 4068  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
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 actttttctcc aagaagaagc cagctccacc tccaaagaaa aagcctgccg ctgtatcccc 180  
 cgccaatgag gaactcgcca agtggatggt tcctgacaga aggatcttct tgcctgaggg 240  
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<210> 4069  
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 gttggaacaa agaggcaaat atgttgactc tggaatcacc agctgggtgt ggtttctcct 180  
 actctgccaa taaatcttct tatgactttg tgaatgatga aatgacagca agggacaatc 240  
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<210> 4070  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558960H1  
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<210> 4071  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558961H1  
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 gcactttttct ccaagaagaa gccagctcca cctccaaaga aaaagcctgc cgctgtatcc 180  
 cccgccaatg aggaactcgc caagtggat ggtcctgaca gaaggatctt cttgcctgag 240  
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<210> 4072  
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 <223> Clone ID: 700558963H1  
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 agtcgcgtta ttattacctg atgaaaattt agaggctcta ttgtggacga aataagttat 180  
 caattcaaca ataaaccaat ggaaatgaga aaatcccggtt ttggtggagg gagtaggtga 240  
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 tcttatttgt cactgtgtta tggcatcaa attcatcagc agcagggtta ttgtattgta 180  
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<210> 4074  
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<223> Clone ID: 700558966H1

<400> 4074

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gttatacgaa gagtgtgaaa ctccagaaag ggaatttgtg gtcggtattt agctgtatgg 180  
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<210> 4075

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558967H1

<400> 4075

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tctngcttgc ntaaccnnga tctgcagana atntgcgaag aactgggctg ttacatttgt 180  
tatgccttgt cattgcgtta gtaagtgtgc aagcagagga ngcgtataag tattacacat 240  
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<210> 4076

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700558968H1

<400> 4076

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gcggaagtga aanaganctc cgcacccgcn gccgccacat cctccnacgn aaagatccgc 180  
gnaatcctcc gcaaccgtga ctacgacaag aaattcgggt tcagcgtgga gatcgagtnc 240  
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<210> 4077  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558970H1  
  
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 ggttgtcaaa gccgccaccg ttgttgcccc caaatacacc gcgattaagc ctctgggaga 240  
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<210> 4078  
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 <212> nucleic acid  
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 <223> Clone ID: 700558971H1  
  
 <400> 4078  
  
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 ntgactccat tattaccaga ccagccacac tacagtgtca atatgactgc agttcaagtt 180  
 ggccatactt tccttagtct atcaacagat acatcagcac aaggagacag anaagggaca 240  
 ataattgaca gtggtacaac cctggcctat ctgcctgaag gattt 285

<210> 4079  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700558972H1  
  
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aggaaccaat aaatgaacaa gcagtagcaa atatgtatgc tgcaatgagg tctgagctca 180  
 accaaattta ctccaaaata actgaactgg agatggaagt tagtgagcac acattggnta 240  
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<210> 4080  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558974H1  
 <400> 4080

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 caagggcaag gttgaagatg agctttttca cccatccaaa tcttccaaga aaaacaacaa 180  
 cctcaacaaa aaacatgggg 200

<210> 4081  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558975H1  
 <400> 4081

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 ttatttcaat gcaccaggaa gaaaccatct ctttgttcca gggccggtta acattccgga 180  
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 tatgacaaaa atttgcttga ggatgtcaag aagattttca aga 283

<210> 4082  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558976H1  
 <400> 4082

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 aactcatagc acttgaaaca tcaaaacaga caaatgctcc actggaggaa gtgcgcaaga 180  
 atatttggtt ggtggactca aagggttga ttgtcagttc ccgcaaagat tcgctccaac 240  
 attttaagaa gccctgggct catgagcatg aacctgttag aaat 284

<210> 4083  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558979H1  
 <400> 4083

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 gtggacttga ggaatttgag tagcgggtgag agcgcgtggg tatgtctcgg agataaaaga 180  
 aaaattttga atgggaagaa ggaaggggtt ggttgcaaga ttgaaacgca ggggaatcaa 240  
 gtgttttgca ccaaggtggt tgatatggag ttgtggtcgg aggt 284

<210> 4084  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558980H1  
 <400> 4084

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 ttgtattggc ctcttccatc gcagcctctg ctggcaactt ctaccaggat tttgacgtaa 180  
 cttggggaga tggctcgtgc aagatactca acaacggcga tcttctcact ctttcccttg 240  
 acaaagcctc tggctcgggg tttcagtcca aaaacgagta tctcttt 287

<210> 4085  
 <211> 282

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558981H1

<400> 4085

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gaattcatcg atgctgatga aagtgccta ccagataaaa tctcagaggg tcctttaaaa 180  
ccattactag ctgaaatata tgattcagaa atagtagctc cattagacaa tgaagtagcc 240  
cctcttgccg aggaaactct ccaagcatgg gaacggatga gg 282

<210> 4086  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558982H1

<400> 4086

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tcgctccaat tccgccgcgc ccagattctt ctctctcacc taaaacccg gtcncaacaa 180  
ggcttttcct tccnactcct atggcggnag aaacatcttg gatcagccat atgatgacag 240  
acaaagggag actggggcgt ttgattcatt ttagaattg 279

<210> 4087  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558983H1

<400> 4087

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caaaaccacc agaagcagct ccaggttctg gcctcggttg attcccactt ccaccgatca 180  
catcatcnct gccgagaagc gccttctttc cgctcgtaag actggttatg gttcaagagc 240



atgttaacat tggctctggt cctcctgggc tccaaagtga ggtg

284

<210> 4088  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558985H1

<400> 4088

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ggttgcaaaa ctgagcctgc agactggctt tacgtctgag tatacacgaa tgatgataca 180  
tgagactgat catctaaaga aagtcaagga atcatctgga ccgaaagaag cgtcaaaaaa 240  
gagcaatcct ctattcgagg caccgcgtcca aggccagaga atga 284

<210> 4089  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558987H1

<400> 4089

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tgagatcac caatgtcagt gagtatgagg ctattgcaaa gcagaagttg ccaaagatgg 180  
cgtttgacta ctacgcatct ggtgcagagg accagtggac tctgcaagag aacagaaatg 240  
ccttttccag aattttgttt cggncacgta ttcttattga tg 282

<210> 4090  
<211> 212  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700558988H1

<400> 4090

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cccgcacagt tgaaggcggg gttggctgag ttcattctcca ccttgatctt cgtgttcgcc 120  
 gggtcaggtt ccggcatcgc ctacaacaag ctcaccgaca acggcgccgc cactcccgcc 180  
 ggcctcatct ccgcttccat cgcccatgct tt 212

<210> 4091  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558991H1  
 <400> 4091

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 nnnnnnnnnn ctattcaag acaggcctgt ctttgctgcc cctgccccca tcatcaccac 180  
 aactgtgaga gaggatatgg caaaggaata cgagcaagct attgaagaac tccagaaatg 240  
 ttgagggaga agagtgaact caaagccaca gctgctgaga a 281

<210> 4092  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558992H1  
 <400> 4092

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 ggagtcaa atgtgcagcctg tcaacagtcc agtgacggtt tgtggtgata ttcattggtca 180  
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<210> 4093  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558993H1

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 gactttacgt ggggtgtacc ctattgagac tatacttact gttggcagaa tttgttcaga 180  
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 acccatgact cactggaatc tattgcatcc tctgcggtac 280

<210> 4094  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558995H1

<400> 4094  
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 atcgtttttag gtatctgaga atagttgaag agcttcaaag agtggaataa tcggattcgt 180  
 ctagagaagn naagcttgcg ttctttatta atctttataa tatgatggcc atccatgcaa 240  
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<210> 4095  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700558996H1

<400> 4095  
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 tcgttttagg tatctgagaa tagttgaaga gcttcaaaga gtggaaatat cggattcgtc 180  
 tagagaagag aagcttgctg tctttattaa tctttataat atgatggcca tccatgcaat 240  
 cttagtatgg gccatccaga tggagcactg gaaagaagga aat 283

<210> 4096  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559001H1

<400> 4096

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 cgacaagaac ggcnacggaa aaatctcggg aacggagctg aaggacatgc tcgcggccct 180  
 cggatccaaa acgacggacg aggagtngaa acgnatgatn gagganctcg nccanaacgg 240  
 cgacgggtttc atnntntcna ngattcgngg atttnatgca atg 283

<210> 4097  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559003H1

<400> 4097

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 aggaacaagg aaggcagctt tatggagcca acctattaga aatacaggca aaaatgaaac 180  
 taaatgagca gcagctggcg actctgtcaa gttcaaaggc tgtgaacgaa ttncttgagc 240  
 atcagangga aaatataaca atttgataaa cagagtcctgg 280

<210> 4098  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559010H1

<400> 4098

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 agatttgata cctgtgtnag ttgtttnaat gaagtttact aactggngtc tgtttctcaa 180

atgttcccct attctcctca nagacnccat tctattgata cggtcacttc aaatatcaca 240  
tctntgnatg ggcaactatn gattatgttc acaatg 276

<210> 4099  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559012H1  
  
<400> 4099

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gaacatcggt ttgcagccgc ggttgtnac tctgagatcc tacggttcgg atcgagcggg 180  
ggttctgatc aaggcccgcga aggaggggtga cgatgatgac gtgtccccct tcttcnccgc 240  
tctttccgac tatattgaga gctctagaaa agtcatg 277

<210> 4100  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559013H1  
  
<400> 4100

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ctgaaactcc cgatttcaaa gcccagatg ctgtccctcc ttggagggat agcaccactg 180  
gtcttggtca gaccctccct cgagaagaa attgagaaag cagcactcct tgacttcaac 240  
ctcacccttc ccataataat ggtggagtgc tgctgctg 278

<210> 4101  
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<212> nucleic acid  
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<223> Clone ID: 700559014H1  
  
<400> 4101

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 aagcngtcga atcgtngtcn gtctccgacc ctgcagatcc cccaatcatc caatcccagt 180  
 ccaactcatc ttttgantgc cggaagagaa attcnaaatt gngngaagcn tcgganaaga 240  
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<210> 4102  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559015H1  
 <400> 4102

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 ggcggaagt ttctcaaagc caaggaccag aagccgctct acgaagctct ccagaagatc 180  
 aaagaagagc tgatgctttt ggggttcatt tccctgcttt tgacggttac aaaaaacggc 240  
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<210> 4103  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559016H1  
 <400> 4103

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 tcaagtccat ggctggncct cccaccaga aagaccaaca atgacattac ctccattgct 180  
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<210> 4104  
 <211> 285

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559017H1

<400> 4104

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aaaccgccgt gtcacggtgg acaagagcaa agacaagagc agctaagggtt ggaaaagggt 180  
tgtctaagga tgataaggca caaaaattgg cntatcaac attggctcga agctattgac 240  
ccacgtcatc gctattggna caatttgac atgattacga tactt 285

<210> 4105  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559018H1

<400> 4105

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agctggtacg tcttggtgga accacccaat aactgtcaa caaccagatg gtgaatgcca 180  
ccctgcatga acattgctga taaccccacc aatgtgcagc ttcctggtat gtataacaag 240  
gaagagaatc cccgtgtgcc catcatcgtc acggtgaagat ttc 283

<210> 4106  
<211> 280  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559020H1

<400> 4106

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gtgaaatccc cagtgtgtgc taggaatccc ttgaggcaag ctgtggcaat gggaaatggg 180  
aggattacat ggtaatttta gtacaagatt aataatttgt ctgattttga aattggaaaa 240

aataactgaa tgatgatgat gttgtatatatt gatatgatac

280

<210> 4107

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559022H1

<400> 4107

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tatgcttcac ncgacccgca ttgtagagtt cacgccggag agacggcgga atctcaccgg 180

acgatcgtga tttcgcanct tcatggcttc cgcctaccgg nacgaancta attggccang 240

gcatagaagc ggtggngctg gattcagggg aaaagtacct tt 282

<210> 4108

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559023H1

<400> 4108

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ggtgtgttcc atcgctatag agaacgcgaa gaacaaagag agagcgaaac tgaagaagct 180

cttcgatgaa gcgtacgaga ggtgccgcac tgctcccacc gaagcgtttc cttcatctcc 240

aacaattcac cgacgtcttc gacaagtacg acttcaac 278

<210> 4109

<211> 254

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559025H1

<400> 4109

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tggcccgtac aaagcaaact gtcgtaagt caactggagg aaaagctccc aggaagcagc 120  
 ttgcaaccaa ggctgcacgt aagtctgcac caacaactgg tgggtgtgaag aagcctcatc 180  
 gttatcgccc tggaactgtt gctcttcgtg agattaggaa ataccagaag agcactgagc 240  
 tccaatcagg aagc 254

<210> 4110  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559026H1  
 <400> 4110

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 aggggaaatc agttaacact attgcctgct tcttttagca gggtgggtgcg tctagaggag 120  
 cttgatttga gttcaaata gctttcagca cttcctgata ctataggggc gcttggttagg 180  
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<210> 4111  
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 <213> Glycine max  
 <223> Clone ID: 700559027H1  
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 gttttatcag aatgtggctt aaggcctctt ccaccagtgt ttccacgggc aacaagaccc 180  
 atttcgtgcc aaaaaccttc aaagtctaga tttttaagca caaacaaggg tgtgccagat 240  
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<210> 4112  
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 <213> Glycine max

<223> Clone ID: 700559028H1

<400> 4112

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caanaatcag ttgtagaaaa ggaacagatg ttggaanata tgaganggtt gcttcaggct 180  
nctgangaaa aaaggcaagc ggcactagct ggagctactc agctgaaaca tcaaaagaat 240  
atacagagtt tggaggctca acttaatgat gattgtctga c 281

<210> 4113  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559029H1

<400> 4113

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aaaatccaac acatttanca gatttcacgc caccaacggg gtcttcgtaa cggatatagc 180  
ataacctttt gatcattcgg tatgaaaatc caatntccaa cctcggatcc atctttttaca 240  
ttcttcagat cataggatct aatattgttg cagttttg 278

<210> 4114  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559030H1

<400> 4114

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ttgtgcaact tctgttataa agatgttgca tttgatgttt gcatcagttt ccccagcttg 180  
tagtattgag gaccatctaa agtatggaga ctatgttaag aatttgtcat tacaattctt 240  
gaaccagaac aattccgtgc aggggatatt cctgat 276



ccatccaaaa ggggtctttct acgtctccgc atcgagcacc aagaaaatcc taataatggg 180  
 aggcaccagg tttattgggtg tgttttttgtc taggctcctt gtcaaagagg gtcaccagggt 240  
 gactttattc acaagaggta aagcgctgt cctcaacagt tg 282

<210> 4118  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559036H1  
 <400> 4118

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 aagcacactt gaaatgtgaa gaggcgctca atagggctctt acgttgtgca cttcatggac 120  
 cagttttctc tcttccantc attcnccac cacantccac ctcagggtcg tgnnattctt 180  
 gaagaattgg caatgggtga ggaagagatc atcaagcttg aaaaaaaagt taaggaactg 240  
 gaacttagga ttgttccagg agagataccg ancatagact 280

<210> 4119  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559037H1  
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 tcaaggccct tttacttggt cgtccggttg ttcccatctt ctctctcgta ccaatcaa 180  
 cacacttttg tgttgtggtg ggaaacccta aaccccgttt tcggtgagat cgagatcgat 240  
 cgaacatgga tgaggagtac gatgtgatcg tgttggg 277

<210> 4120  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559038H1

<400> 4120  
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ggttcagaat ctgctttcag ctttagcaga tctccaaagg cgagttgaca aggctgatgc 180  
aattgtgaag caaaaggaag acgaaaatac cgaattgagg gaacagctaa aacaatctga 240  
gaggaagagg atcgaatatg agacaaaatg aaatcaat 278

<210> 4121  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559039H1

<400> 4121  
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agggtaagga gttgaaatat tctggtggcg acatggagat agagattgcc atccccaccc 180  
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taacctatga ccgcgacagn atcgagagtg gatcgag 277

<210> 4122  
<211> 276  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559040H1

<400> 4122  
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tgaaatgaga gaattctcag caaggacaat cagaatttga cctcaaattc tttcttatta 180  
gatgatgatc tgagtctggt gtagcggaaac tggagaaatg gatagtcaat gcaacagagg 240  
agtatgcagg gacatcctgg catgactgaa ttatat 276

<210> 4123  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559042H1

<400> 4123

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 gagcatcaga ttcattgggt ctccatnttt aactctttca tgatgggtcat cttccttact 120  
 ggtttggtgt caatgatatt gatgcgaact ctgagaaatg actatgcaaa gtatgctcgg 180  
 gaagatgatg atttggaaag tctggagaga gatgttagtg aagnatctgg ctggaaactt 240  
 gtgcatgggt atgtttntcg gccctcgca actt 274

<210> 4124  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559044H1

<400> 4124

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 gttgacaagg tgggtgtcct gtggacagcc aacacagaga ggtacagcaa cgtagtgtgtg 180  
 ggactaaacg acaccatgga aaacctcttt gnttccttgg acaggaatga ggctgagatt 240  
 tccccctcca ctttgtatgc nattgctgtg ttatgga 277

<210> 4125  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559045H1

<400> 4125

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 gtgacaaatg gagttgaaga tgccaaatat cctggtggag gctatggtgg gggttaccca 180

ggcaatggcg gtggtggcta tcctggccgt ggtggtggct accctggcgc tgggtggggc 240  
tatccaggtc gcggtgggtg taccctggtc gt 272

<210> 4126  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559046H1  
  
<400> 4126

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gttggtatna aaatggaaag caaccatagc atgaggcaaa acaccatgga aacagagttt 120  
gaggacttgc tgcnagtgat ggcagaaaag ctggatgtgg agtcctttgt ctctgaacta 180  
tgtggagggt tcaagcttct atcggaccgc gaaactgggt tgatcacgag cgagagtcta 240  
aggacaaatt cagtcttctg ggatggaagg gat 273

<210> 4127  
<211> 279  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559047H1  
  
<400> 4127

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catggttttc caaacaagca ataatcncca tttcgtattg tttcccctaa tggctcaagg 120  
ccacatcatc cccatgatgg acattgcaag actattggcg cggcgtgggtg tgattgttac 180  
catattcact accccaaaga atgcatcacg tttcaattct gttctttctc gtgctgtttc 240  
atcaggcctc caaatccggc tagttcaatc nactttcca 279

<210> 4128  
<211> 280  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559048H1  
  
<400> 4128

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 gaccanatag gtagtagant tctcataana agtcgcaaca aagaggtggc aactatgct 180  
 ggaactgcgt ctccctacna ctttcccatc ctcaatgaag atgaaagctg ggaactcttc 240  
 acaaagaaga tttttcgagg tgaagaatnc cgtctgattt 280

<210> 4129  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559051H1

<400> 4129

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 caaaacgacg tcggacgagg tgaagcgcac gatggcggag tggaccggaa cggcgacggc 180  
 tacattcatt tgaaggagtt cggcgagttc cactgcggcg gcggtggcga cgggagggag 240  
 ctccgggagg cgttcgagct gtacgnctgg acaagaa 277

<210> 4130  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559052H1

<400> 4130

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 accttcaggt tctggttgaa atagcatgtg catcaactcc taaccatttg gtggctgtga 180  
 ggcaggotta ctgctctctc tttgattgct cacttgagga ggacatcata gcctctgttg 240  
 ctccagccct cagaaagctt ttagtggcct agtaagc 277

<210> 4131  
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<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559053H1  
 <400> 4131  
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 gtgggacctn ctacaagctc gtgccaagga gagttcccgg agcaggcatg acttgnccctc 180  
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 catggatc 248

<210> 4132  
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 <213> Glycine max  
 <223> Clone ID: 700559054H1  
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 ggaagcaagg tgaaatatga acttgacaaa agaactggac ttattatggt tgatcgata 180  
 ctttactcat cagttgttta tcctcacaac tatgggttta ttccacgtac tatttgtgag 240  
 gacggtgatc ccatggatgt cttggtatta tgcagg 276

<210> 4133  
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 <213> Glycine max  
 <223> Clone ID: 700559055H1  
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 tntaatgggt ctctccacaa catttatacn cccttcatcc ccaanattga acctttactc 180  
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269

<210> 4134

<211> 269

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559057H1

<400> 4134

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atgaatactg ttctgctttg gattacttat tatnctttcg ctttaaantnt atngtnagtt 180

tggttttaaaa aaaaacnnaa acaaaancng gnngnccng gncnagtgc nngacnnc 240

cgggannnaa ncnggaccga gcaccaagg 269

<210> 4135

<211> 277

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559058H1

<400> 4135

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atgcttggaa acccatcaa cttcagtggg gccacaaggc cagctccatc tgcttctagt 120

cctgcctcct tcaagactgt ggctcttttc tccaaaaaga aggtacacc aacacctcca 180

aaaaaannnn nnnnnnnnnn nnnnnncaat gatgagcttg ccaagtggta tggctctgac 240

agaaggatct tcttgctga gggtccttgg accgatc 277

<210> 4136

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559059H1

<400> 4136

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aactacgagt tgcattcaac aacctcttcc acgaatttct tttctctcga cgagggtaaa 120  
 ctcgtaatgt tcgtttcgat tttttccaaa agcgctgcn tttcttcccg agcgaaatct 180  
 tcttttcttc cacgaacctt ggattcattt cagtagcatc tttcaggggt tatattccat 240  
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 tttgccggca aaggaatgtc tcaaaaccag aacgactgtg cttacacttt ccntgctaca 180  
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<210> 4138  
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 <223> Clone ID: 700559064H1  
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 catgttctct atgtttggct tctttgttca ggccattgtc accggaaagg gtccattgga 180  
 gaacctcgcc gatcaccttg ctgaccctgt caacaacaac gcctgggcct atgccaccaa 240  
 cttcgtcccc ggaaagtgag cgtcaagaac gaaatga 277

<210> 4139  
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 <212> nucleic acid  
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<223> Clone ID: 700559066H1

<400> 4139

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agatccaaca aagcaatcac cggcaaccgg ttttccgggtg agctatagca attcaacaac 180  
gtatttgacc aacgaggctt cctacgctcc agtcccacct cccagccca aacctottgt 240  
cgnttggtcc accggcctcg tgactgcttc 270

<210> 4140

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559067H1

<400> 4140

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agtgtgttga tgctaccaa attgcaggat tcgcccttgc cacctctgcc ctcgttgtct 240  
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<210> 4141

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559068H1

<400> 4141

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cttcttcgaa gagcgtttcg atgacggctg ggaaaatcga tgggttaa at cagattggaa 180  
aaaagatgag aacgtggctg gggagtggaa ccanacctct ggtcaatgga aggagacgct 240  
aatgacaaaag gtattcaa ac catgaggatt aca 273

<210> 4142  
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 <213> Glycine max  
  
 <223> Clone ID: 700559073H1  
  
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 ctcgcatact ggagttgana ggaagcatag acattggaga acgtcatgct gatggagatc 180  
 aaggcgatac caactctgct gggaagacag cnaagaagat ctatgacaag aaatttgcag 240  
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 acttgctgaa aagggtatca aatatgagta caaagaagag gacttgagga acaagagtcc 180  
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 tccaccttca ccagaaacct tcatgcctca ggtgaaaaga agaagattgt ggggggtgttc 180  
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<210> 4147  
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 <212> nucleic acid  
 <213> Glycine max  
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annnnnnnnnn nnnnnnnnnn gaatttcact caagttatca atagttttcg ttcataaaaa 180  
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<210> 4148  
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<223> Clone ID: 700559077H1  
  
<400> 4148

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gattatatgt atatcatgaa atgcacacga ggtggaacct tttccaaagg tgaattgcag 180  
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aaaaagaaaag anagacaaaag aagatgatat tttcaattat agtttcggag tttgtgtttt 180  
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<213> Glycine max  
  
<223> Clone ID: 700559080H1

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 accnngcnag gggaattcaa nntnagcaa tggcggtttc tncttctgca acaanatggg 120  
 tccgtncnng cttctggcgc tgctcatnng agaagaagcc atggccatgg ntactacncc 180  
 acagatctct gacctcagga atgttgaagt tgaaagacac aggttgccga gcttgacgaa 240  
 ctcgtcaatg gtggagaggg caaaagggct gacaaat 277

<210> 4151  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559081H1

<400> 4151  
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 cgataaggat gacgagaaga ggtggatgga actcactggc cgagacttga atttcacaat 120  
 ccctcctgaa gcaagcgatt tcagttcgtg gagaaacctt cctaacaccg actttgagct 180  
 tgaaaggccg cctacnccaa tcaagagtgc tcctaattct catcctaataa aactgcttaa 240  
 tggaaactgt ctgaatctgt ctaaccaagc aatgggtga 278

<210> 4152  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559082H1

<400> 4152  
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 aaggctattg gatncattga tatgatgatc gattactcat cagccaatgc acctctacag 120  
 aaagaactat cagcagagga ggtgggcaac acagctgcct tcttagcatc acctttggca 180  
 tctgctatca ctggactgt tctatacggt gacaatggtc tgaatgctat ggggtgttga 240  
 gttgacagtc caatatttaa agatctgaca ttcccaag 278



<210> 4153  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559083H1

<400> 4153

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gtcgcggcga gaaactccgc cggagaagat tcacgcgaag accatcggtt gcatgtccgg 120  
cattctccac ttcattctcca antccaattc ccgtcgctct cnccgcttcc tcacattcgg 180  
aaagnncccg gattaataag aaccccgccg acgccggaaa ttcgaagcca gccgccgatg 240  
aacggaggct gtctccgacg tgccgagagt ccgactt 277

<210> 4154  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559084H1

<400> 4154

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gcctagtacg ggtctgtttg ttggactgaa caaggacat gtcgtcacca agaaggaatt 120  
gccccacgc ccctcggatc gtaaggggaa aacaagcaag aggggtgact ttgtgaggaa 180  
cctcataaga gaggttgctg gttttgcacc ctatgaaaag cgtataactg agttgctgaa 240  
ggttgggaag gataagaggg cattaagggtt gcaaa 275

<210> 4155  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559085H1

<400> 4155

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catggcagca gttacnatnt actgtatcaa aggaacctgt ccatgaagct tggcctcttc 120  
accgcaagnc aattagaaaa gttgtcatca ggnaagataa aagggcccg c aaganagagg 180

naagctttga gaaagctctt ttgattgcca acacaaggac aaaagttgat gttgcatggc 240  
aggatggaac catagagcgt ggactaaatc tacaagttt 279

<210> 4156  
<211> 264  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559086H1

<400> 4156

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ngcgcgctga cactgctttg ccgganactc tcaccagaat ccggtgccag aagcctctct 120  
ctgtccgatg ctctggcgat tccccttccg gctctgtggg ttcggagttc gatccgaagg 180  
tgtttcgtaa gaaccttact cggagtaaga attataaccg caaaggattt ggggtacaagg 240  
aagagaccct ccantcatga atcg 264

<210> 4157  
<211> 275  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559087H1

<400> 4157

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aagctcatgg cggatgctgg tgaagngtgc aagtccttgc acctttctga cacacagtgg 120  
tagtaagcga agaggggttg gcaaagtaan agttactgct gaagactcag tttctccctc 180  
tgagaccatt gcagatgact attatgaagt tcttggaactg cttccagatg cgacaccaga 240  
gcagatcaag aaggcatact acaatgcatg anac 275

<210> 4158  
<211> 273  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559088H1

<400> 4158

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 attgggtggg gcaacgtgtt catgatgttc tgaaggcta tccacgtttg cgcttaactc 120  
 atgggcgga ggttttagag atccgacctg tgattaactg ggataagggc aaagctgtca 180  
 cgtttctact tgagtcactt gggctaaaca attgtgatga tgtgcttctt atatatattg 240  
 gagatgatcg gacagacgaa gagcatttaa ggt 273

<210> 4159  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559090H1

<400> 4159

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 aatgctgttc anatacagtg gtgcctcagc tgctctcact gtagaccctt cactacactt 120  
 gtcaagagct tctagcattg tnatgttgat tgcataatgtt gtctacattg tctttcaact 180  
 gtggacacac agggagttat ttgaagaaga agatgacggg aaagatggcg aggatgggtc 240  
 agaagaacaa gctgtgattg gatatggagt gg 272

<210> 4160  
 <211> 275  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559091H1

<400> 4160

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 ctatgnccac cgaacaaatc tttncctgct catatnggta gcattttccg gnggtggcnn 120  
 nagtggccgc tctcngagac ccaaatacaa gatcgaattt catcccgagc attncccttt 180  
 tcaccctgat gatgatcagg antctatagt catgccggat aaaactggac anaaatatat 240  
 atgttactta cctaaagtgg naaagaaaaa nggtgg 275

<210> 4161  
 <211> 272

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559092H1  
 <400> 4161

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 tgcgaaaatg agagantgca tctcgntcca cattgggtcag gctgggtatcc aggnccgaaa 120  
 tnccttgctgg gagctctact gcctcgagca cggcatcgng cccgatgggc aaatgccaaag 180  
 tgacaagaca gttggcggtg gtgatgatgc tttcaatact ttcttcaccg agactgggtgc 240  
 tggaaagcac gtgccacgtg catgtntgtn ga 272

<210> 4162  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559094H1  
 <400> 4162

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 aggtgtctac tatctgacta cacatgtgtc tgtgnacatt gtctttcaat tgggtgaagt 120  
 ctgnntgang agcantgnag acnnatacca gtaccantnc cccatacaac canaagncgg 180  
 tcnggttagg caccgaaaac gctcaaataga cgttattccg gaggttagca aancaatgg 240  
 accccaatta ntgggttgatg acnaaacaaa tncaant 277

<210> 4163  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559095H1  
 <400> 4163

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 tcgtgtgcct attggaaatc acgattgggg aacttaaaaa actcgttgag gagggaaaaa 120  
 taaaatacat tgggtctgtct gaggcctcgg cttcaacaat cagaagagca catgcagttc 180  
 atccgataac agctgtgcag ttggagtggc ccctatggtc aagagatgtg gaggaagaaa 240

tagttccaac atggcagggga acttggtatt ggaatgttgc a 281

<210> 4164  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559103H1

<400> 4164

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gaagatggag gtgnggccag gcgngcgtct ggtaccgatg gtgtccggga gcggaggggc 120  
tcgtccgnca gctagaagga ggagccaaga tgagcccgtt cagtcgggga tgaacgggat 180  
tccgaaacac tctactggc tggatctctg gctcttcac cttttcgacc tggcgttgtt 240  
catcttcgtg tacctcttgc cctgattggt ttgctgagat ctagaa 286

<210> 4165  
<211> 281  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559104H1

<400> 4165

atacatgcct acgcttatga taaaagtga atggaggagg tttcaatggt tgcactttcc 60  
gggtgtatat ggatacaggc tttttagta acaatggaga ccaattcctt tactatattg 120  
caatatatgg ctatatgggg taatttggct gccttttatg tcatcaactg gatcttcagt 180  
gcgcttcctt catcggggat gtatacaatt atgtttcgggt tgtgtcgaca accgtcatat 240  
tggatagcaa tttttctcat ggttgcggcg gggatgggtc c 281

<210> 4166  
<211> 283  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559106H1

<400> 4166

ctccgtaagg acgaagccat gttcagctcg agcgccaaga ttgtnaagcc caatggcgag 60



agaagtagac tcatgccttg cttgtattag gactttactg aacccaaata ccacaaaatt 60  
cttnagctca gccctgctag ccttaactga gaaagtggaa atttaagatg ggatccgtgc 120  
ancgtatggc gtcaacaccc atggcatggc ttagtatcat accatatgct tggttttctg 180  
cctgtgaact tgtgagatag naaaacagct acctagtcac ccaattttac tggtttgtata 240  
tttattggat gttttgtgta cttacatttc aaatgac 277

<210> 4170  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559112H1

<400> 4170

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tgagtattta taatcttaaa tttgaaattt ttttcatttc agattttcct gaaaacatga 120  
actatcaaga aagaaatgtg acacaaacct aagcacatta ttttctattt atgacttagg 180  
aattggcctt tcatgaccat ggctgacatc cagatgccta tagagtatat atgcacctga 240  
gactgatttt gtatagatta gaatgattgc tatatttgc 279

<210> 4171  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559114H1

<400> 4171

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agatgggtgga ctacagcgtt tgggatcaca tcgaggtgtc ggacgatgag gacgagacgc 120  
acccaacat agacacggcc agcctgttcc gctggcggca ccaggcccggtggtgaacgca 180  
tggaacagtt tcagaaggag aaagaagaac tggaccgggg ctgccgggaa tgcaagcgca 240  
aggtagccga gtgccagcgc aactgaagga atggaat 277

<210> 4172  
<211> 86

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559115H1

<400> 4172

gcnatctggn ttctgcntcc gctccatccc ctengcaacc cgaagtgcng gaacatganc 60  
 gtgttgagcg cgcctgangt cnnanc 86

<210> 4173  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559116H1

<400> 4173

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 atactatcag atcacatgga actagagtgg caaggacaca tatgcacgac tggttgattc 120  
 ttttgcttct tgtgatcatc gatgctgtct tgaatttaac acagccattt caccgttttg 180  
 ttggagaggg gatgatgaca gaccttagat acccattgaa agctaataca attccctttt 240  
 gggctgttcc gataatagca atattgttac cactggctgt tt 282

<210> 4174  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559117H1

<400> 4174

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 tcgagaatac tacacgcgcc tgggtaatga ctttcacacc aacaagcgcg tgtgcgagga 120  
 gatcgccatc atccccagca aaaaccttcg gaacaagata gccggctatg tcacgcatct 180  
 gatgaagcgg attcagagag gtccctgtgag aggcatctcc atcaagttgc aggaagaaga 240  
 gagggagagg agagataatt atgttcctga ggtctcagcc ctagatc 282

<210> 4175  
 <211> 284



<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559118H1

<400> 4175

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ggccaacat ggctccgcgg ttgtgcatca tctctgcagc agcacggcgg ctgctaagga 60
agccgggacc ctgtnttggg gacctcgcgg ctgcgcgtgc tgtgcgattc tattccaagg 120
acagtgaagg canctgggtc cgctccctct ttgttcacaa ggtggatcct cggaaggacg 180
cncactccac tctgctgtcc aagaaggaga ctagtaatct ctacaagatc cagtttcaca 240
acgtgaagcc cgaatgtctg gntgnctaca acagtctgac ggag 284

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<210> 4176

<211> 252

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559119H1

<400> 4176

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caagccctga ggagatcgat gccagctac aggctgagaa gcagaaggcc aacgaagaag 120
atgaacaaga agaaggtgga gatngggctt cgggtnaccc caaaaaggag aagaaatctc 180
tagactcaga tgagagttna gatgaagatg atggctacca gcaanagcgn aaaggtgtgg 240
aagggtcatt ga 252

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<210> 4177

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559121H1

<400> 4177

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tggcatttgt acacagacta cactaaagga tggagtgcaa ggtgacact tnntaactgg 60
ggtgacacta attttgcaga ctggtttgcc gcagtacaaa tggacaaagc agcttcgggt 120
tttgagaaaa tgtattcatt caatgcaact cttctagatg gtgtaaacaa tacaataatc 180
atgcaagggt tgccaggatt gaactacctt gtagcagaag cagatggagc tgaccctttg 240

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agagatccta gggcgcttgg taaacaacaa tc

272

<210> 4178

<211> 241

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559123H1

<400> 4178

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gttctctatt ctacactgtg aaaccaagat gaaggtagca tttgtagctg ttctacttat 120

ttgccttgtc ctaagctcct ccttggttoga ggtgtcaatg gccggttctg ctttctgctc 180

ctccaagtgc gcgaagaggt gttctagggc tgggatgaag gacaggtgca cgaggttctg 240

c 241

<210> 4179

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559124H1

<400> 4179

angactcanc gatgnatcaa agatagccat tntgaatgna aactacatgg caaaacgagt 60

ggagnnttat taccggttc ttttccgtgg antcaatgga acagttgctc angaattcat 120

cattgacttg agaggcttta agaatactgc tggaattgag cctgaagatg ttgcaaagcg 180

cctcatggac tacgggttttc atgnaccaac aatgtcatgg cctgtgcctg gnacactcat 240

gattnagcct actgagantg aaancaaggc cgagttanac a 281

<210> 4180

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559125H1

<400> 4180

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caatttttcgc ctgcattctt gttctttctcg atccattggt gatggcatcg atgggttctt 120  
 taccgtttct tgtggaagcc aatgccgact ccactttgat gatgatgatg cttcagaaca 180  
 ggaatcaciaa gttttcttca ccaaagtta acactgtgaa tgcttcatcg ttagtaagag 240  
 gatggggggcg tggaagagtg aaccataggt gtagtagt 278

<210> 4181  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559126H1  
 <400> 4181

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 aattgtcaca tgtttctaag aaacaattac tttttatgcn aacacagctt ggctttaaga 120  
 caatgacaaa agttatgcag gttacacagt ggagtattac tcaactccca actacgacag 180  
 tgnccntaca gtctctcttt aaacagcata gggcttcaat gaaaacagag tgcaattaat 240  
 gtcatggctt gtaaagtctg attacagagg tacagcaa 278

<210> 4182  
 <211> 182  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559128H1  
 <400> 4182

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 cgagnactca acaccnecat cgatgngcgg cggaaaatan ctttcgctat cactgccatt 120  
 nanggtgtgg ngcggngata cgctcatgtg gtgttganga aagcagacat tgacctcacc 180  
 aa 182

<210> 4183  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559131H1

<400> 4183  
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gccgcggctc tcccctcgcg anantantct ttcgtnatcc ctatcgattc aagnnncgna 120  
cagagctggt catcgccgna nagggaaatcc aactngaca gtttgtgtac tncgncaaga 180  
nggcccagct gaatatttgc aatnngntgc ncgtnggcan catncctgan ggtactatcg 240  
tgtgttgtct ggaggagang cctgcggaca gggcaagc 278

<210> 4184  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559132H1

<400> 4184  
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ttccccatcc ttggctggca aggccgtgaa gctgggcca tcagcccccg aagtcgggag 120  
ggtcagcatg aggaagaccg tcaccaagca ggcctcctcc ggaagcccat ggtacggccc 180  
agaccgcgtc aagtacttgg gccattctc tggcgagccc ccgtcctacc tactggcgga 240  
gttcccaggt gactacggct gggacactgc tgggctttcg gccga 285

<210> 4185  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559135H1

<400> 4185  
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gcncaaaacg gtacttgcaa ggcgantgca cacaagggtg ttantattga taancttcta 120  
gttgtgggtg gancanaaga agctctcttg tgccgtgtna gcaaacaacc tgtagcgtn 180  
acatagatgc aactggcctt caatttatgc gggtnagatc tatngtggtg agantgctca 240  
nagaattcan caanagecgac tcttgtntgt ttaatcgng 279

<210> 4186  
 <211> 108  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559136H1

<400> 4186

actnaacang gtcattgtgcc cngtttgtgc ttactcngcc aaactctgtg nctacnaatc 60  
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<210> 4187  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559137H1

<400> 4187

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 aggccatcaa gggatatgcat atccgcaaag ccaccaagta tctgaaggat gtcactttaa 180  
 agaagcagtg tgtgccattc cggcgggtata atgggtggagt cggtaggtgc gccagggcca 240  
 aacagtgggg ctggacacag ggacgggtggc caaaaaagag t 281

<210> 4188  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559138H1

<400> 4188

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 ttcggggact cccgttttga tgcacaaagg aagaaatcgt tcagttcttc tcagggttgg 180  
 aaattgtgcc aaacgggatc acactacctg tggacccgga aggcaagatt acaggggagg 240  
 ccttcgttca gtttgcctca caagagttag ccgagaaagc 280

<210> 4189  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559139H1  
 <400> 4189  
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 ttggtcagca tgtctntttc actgtggggg actattccct tgctggaaaa tctgactgat 180  
 catatnntcc aagtgttcct ntntgatctt ttatccagtn tgcattgctat ctgtttgcaa 240  
 gattaggaat anagaatata cccaggcatg cctaattgta 280

<210> 4190  
 <211> 279  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559140H1  
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 gggtgtctac ccttggaacc agaggtactt tgatagcttt ggggacctgt cctctgcctc 180  
 tgctatcatg ggtaacccta aggtgaaggc ccatggcaag aaggtgataa acgccttcaa 240  
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<210> 4191  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559141H1  
 <400> 4191  
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 cgtcctccac tgtcggagcn gtcaacagag ctctnttgaa cctgaatggg tctggagctg 120  
 gagcttcagc tcccagttca gccttcttng ggaccagctt gaagaagggt attgcctcaa 180

gggtccccaa cagcaagggt tccggtggaa gtttcaagat tgttgctgta gaagagaaga 240  
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<210> 4192  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559142H1  
  
<400> 4192

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gacagtgtgg tcacctacag gaccccttng gnactaa 97

<210> 4193  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559143H1  
  
<400> 4193

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tctcaggact gacctgttct acataaatat acacgtttcc tatggaataa tgtgatactg 180  
nttcattgta ctagacactg aacggtttcc tcattccctt aaaatgtatt cggccttccc 240  
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<210> 4194  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559144H1  
  
<400> 4194

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tgagagctcct acccaaactc atcatcatgg ctatagttat agaggacgtg gaagaggaag 120  
aggaactggg gggttccgct cagtcacaaa attcactgaa gattttgatt tcacagcaat 180

gaatgagaag ttcaaaaagg atgaagtatg gggatcatctt ggtaaaaagta agtctcatc 240  
 aaaagacaat aacggggaag aaaatgcctt tgatgaa 277

<210> 4195  
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 <213> Glycine max

<223> Clone ID: 700559145H1

<400> 4195

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 cagtcgtggg gatgtccatg ttgaggataa ccaaaacatg tcctttccgt cgtgggaggg 180  
 aacctttatg aggtgcttca gtgaaataga tgaaaagctt gctaagaaca tcgacactga 240  
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<210> 4196  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559146H1

<400> 4196

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 tgctgcttca tgaagccaaa gggttttctg gagatgatga ggaccctgag gaagtgggtg 180  
 ctgtccttca agagtctgtc aacctctctc tggaaatacc atccaatgaa gaaattgaca 240  
 acattatctg gttctctcaa aaaaaccttg ccaccgtg 278

<210> 4197  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559147H1

<400> 4197



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 ccctgcccgc caaagagacc attgaacagg aaaagaggag tgaaatctcc taaaagccta 180  
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 gccacctgca agatggacgc gagccacaag ctgcactgtg 280

<210> 4198  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559148H1  
 <400> 4198

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 atacggagcc tgctgctaag gaaccgggat tctccatttc ggcagtagaa gcacggaccc 180  
 taatggtcgc atgcgcagtg ataattccgc ggcctaccga ccgcgccttt tgactgctgt 240  
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<210> 4199  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559149H1  
 <400> 4199

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 catgatgctg tcagaactga agaagcaggt tgctcagaag agtgggtgtgc cagctttcca 180  
 gcagcgcctg gccacccaaa gcggtgaaat gctacaggat ggtgttgccc ttatcaggca 240  
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<210> 4200  
 <211> 279

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559151H1

<400> 4200

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cccttccaca ttcagccttg ctggtccagc ctgggggtgg aggggtggga catctgcatc 180  
ctgtccccct gtgctaccct gagcttcagc ccctcacttc caccctgaga ataagaatct 240  
gagtgtgaat tgattgttca catccttgac acaagtga 279

<210> 4201  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559152H1

<400> 4201

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ttttaaaaga tcaagcctta ctcatctgtc ttatcattag atacttaaag accaaatgca 180  
aaactgactg aatttgcctt gaggcaaaca gttaaaggcat ttcaggtggt gaccgcagac 240  
tccagcagct gacaggtttc ttcttgcact tgggggtg 278

<210> 4202  
<211> 278  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559153H1

<400> 4202

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gacccttcac ccagacctg aaggatgatg caccctgagg tgctgggccc tgggcttcta 180  
ccctgtgac atctccctga gctggcagtt gaatggggag gacctgaccc aggacatgga 240

gcttgtggag accaggcctg caggggatgg aaccttcc

278

<210> 4203

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559155H1

<400> 4203

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tagggcggna ggctttgggg caagagagtc aggaaggatc ccgcggacga ganccgggat 120

ctgagggggtt tgagagggcg gggcttgang aagcgaactg gttgacccgg ctctgantg 180

gatctgtcgg nccanaaccc gcagtcgtgc agcncccagg tttctttcat ngcggtcaga 240

gcgtcgttcg agaacaactg tgaggtcggt tgtttt 276

<210> 4204

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559157H1

<400> 4204

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agtttcttga tcaagaggaa taagcagacg tacagcacgg agcccaataa tctgaaggcc 120

cgaaactcct tccgctacaa cgggctaatt caccgcaaga cggtcggagt ggagcctgcg 180

gctgatggca aaggggtcgt ggtggttatg aaacgcagat ccggtcagcg aaaacctgcc 240

acttcctacg tgaggaccac catcaacaag aatgt 275

<210> 4205

<211> 275

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559158H1

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 ttgcatcctt caatgatacc tttgtccatg ttactgatct ttctggcaag gaaaccatct 180  
 gccgagtaac tggtggaatg aaggatgaagg ctgaccgaga tgagtcctct ccgtatgcag 240  
 ccatgttggc tgcccaggat gtggcccaga ggtgc 275

<210> 4206  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559160H1

<400> 4206

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 tgtgcaaacc aacttaggag tgtcatcaat gggagttgtg aagatggatc atcaacaacc 180  
 ccatcatttg ctgaacaact tgtgaaggag gtgctcatgt ccttcaccaa ctccctctcg 240  
 ttcttgaaga acaacccac ttctgaatcc catgat 276

<210> 4207  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559161H1

<400> 4207

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 cacacaagca caatagacgc ccaagaagta gaaacaattt gaacaattct ccagctgtc 180  
 attcttattc taattgccct tccctcccta cgaattctat acataataga cgagattaat 240  
 aaccagttc taacagtaaa aactatagga caccaatg 278

<210> 4208  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559162H1

<400> 4208

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tccttccaaa tgcagcatca gatgacaaag cctgcacttt tgtgggaaca gctgcttatg 120  
ttcctccaga ggttcttaat tcctctccag caacttttgg aaatgacctt tgggcacttg 180  
gctgcacatt ataccaaag ctttctggaa cttccccttt taaagacgca agtgaatggc 240  
ttatttttca aagaattata gcaagagaac ttagatt 277

<210> 4209

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559163H1

<400> 4209

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agcaacaaca agagaaagcg taacaacaga aaagaagaag gtagtggtgg aggtgcagaa 180  
caaaaagggc nnnnnnnnnn nnnnnnnnnc gagaacagtg aaagtaactt gaaggactta 240  
cttgcttcgc tgattatgtt agacgaggaa gaaattcaag a 281

<210> 4210

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559164H1

<400> 4210

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tgagaccag cggaaaacca aagaggatga gaaggacgac aagcccatcc gagctctgga 120  
tgaaggggat atcgccttgt tgaaaactta tggccagagt acttattcga ggcagatcaa 180  
gcaggttgaa gatgacattc agcaacttct taaaanaatt aatgagctca ctggtatcaa 240  
agagtccgan actgggctgg cccctccagc ccnctgggat t 281

<210> 4211  
 <211> 228  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559167H1  
  
 <400> 4211  
  
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 cgggcggcgg cacagcaggc ggggaccgct gggaaggcga ggacgaggac gaggacgtga 120  
 aggataactg gnnnnnnnnn nnnnnnnnnn nnnnnnnnaga agcagaagtc aaaccagaag 180  
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<210> 4212  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559168H1  
  
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 agtcctgtac accagtgtct ctgtcctggg ggctctgctc ttggctgggc aggccaccac 180  
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 cctgca 246

<210> 4213  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559169H1  
  
 <400> 4213  
  
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<210> 4214  
 <211> 97  
 <212> nucleic acid  
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<223> Clone ID: 700559170H1

<400> 4214

ggtagccaga gcnaaccctc cgctnacttg ncagatngcc anncgccctnc atgacttntg 60  
 gaagantttct ctgctnccat cgtgctanta caggtgc 97

<210> 4215  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559171H1

<400> 4215

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 atgctatgcc aagtttatct acagcaaagtg ttgatgcaca nacagttgct actcccttta 120  
 gancagatgt atctnccctg ggttcatata cacaatctgt gattgttgga agtgggtagaa 180  
 gaaggtnttc aganatgcct cattctgctt caactcacia ggaacaacct caaacaactt 240  
 accgggaccg tgcagctgag angaggagtt tatatgg 277

<210> 4216  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559173H1

<400> 4216

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 aagaagctca gaggcttcat cgctgagaag agatgcgctc ctctaagct cggtttgga 180  
 tggcactctg ctggaactta cgacgtgagc tcgaagaccg gtggtccctt cgggaaccata 240  
 aagcaccct ccgaactcgc tcacggcgta acaacggctt t 281

<210> 4217  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559174H1

<400> 4217

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gaanaatata gttggatttt aagtttgagt ttttcgtctt aatttagtct tctgtttatt 180  
ttctatctgt tgattgactt gggcatagtg gaaaaagaat tatatttggtg gacaatctgt 240  
tatgtaatag ggggtgtttt ctggctatga agctcacca 279

<210> 4218  
<211> 274  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559176H1

<400> 4218

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aaacttgat cgagaaatgc gtgacaacaa tatctcacct gaccaagcaa catttggtac 180  
tgttcttcaa gcttggtgctc tcttatcctc gttgcatgat ggtagagaga tacattctct 240  
aatcttccat actgggtttg acttggtatga gtta 274

<210> 4219  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559177H1

<400> 4219

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ccaacacaga gaggtacagc aacgtagtgt tgggactaaa cgacaccatg gaaaacctct 120  
ttgcttcctt ggacaggaat gaggtgaga tttccccttc caccttgat gccattgctt 180



gtgttatgga aaatgttcct ttcatacatg gaagccctca gaacaccttt gtcccaggac 240  
tcattgatct ggccatcaaa aggaatagtt tgattg 276

<210> 4220  
<211> 237  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559179H1

<400> 4220

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ttgccttgtc ctaagctcct ccttggtcga ggtgtcaatg gccggttctg ctttctgctc 180  
ctccaagtgc gcgaagaggt gttctagggc tgggatgaag gacaggtgca cgagggtt 237

<210> 4221  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559180H1

<400> 4221

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ccagctccat ctgcttctag tctgcctcc ttcaagactg tggctctttt ctccaaaaag 180  
aaggctacac caacacctcc aaaaaaannn nnnnnnnnnn nnnnnnncaa tgatgagctt 240  
gccaaagtgg atggtcctga cagaaggatc ttcttgctt 279

<210> 4222  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559182H1

<400> 4222

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 aggaagttct cagagcaata cgcccgttaag tcaggaacat acttttgtgt tgacaagggg 240  
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<210> 4223  
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 <213> Glycine max

<223> Clone ID: 700559183H1

<400> 4223

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 tcatcaacca tgtcgttctt cgaccttctc ttatctctcg ctctcccaat ccncttcctt 180  
 ctccttcaca ctcagaatgc atgtctcctt tctcgatggg tttagggagc atgcgattct 240  
 anagtgaaga tttgaccac gtgccaata ttaaggacc 279

<210> 4224  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559184H1

<400> 4224

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 tgtgtggtgt ggtggttgct gtgctctcct tttcgttatg ctttttatta ttacctatct 180  
 gtcgctccac tccgtattac gactctggat cagaggatac atcagaggat tcgctccaac 240  
 ccctatcgag taaggtatta tctgtcaatt tacatt 276

<210> 4225  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559185H1

<400> 4225

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 catcaaccat gtggttcttc gaccttctct tatctctcgc tctcccaatc ctcttccttc 180  
 tncttcacac tcagaatgca tgtctccttt ctcgatgggt tnaggagagca tgcgattcta 240  
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<210> 4226

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559186H1

<400> 4226

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 ttctgaaatg atttttttaa gccgaataga agacaggatc cgacacctcc cacaagccct 180  
 tgacgggttt tgtttgagtc tgattttttt gtgtgtatga tttttttttt aaagcctttt 240  
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<210> 4227

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559187H1

<400> 4227

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 agggctccaa caaactcacc atccttcaag gctgccctgg cttgcctgga gccctggggc 180  
 ccaagggaga ggctgggtgcc aaaggagata gaggagagag tggccttcct ggacaccctg 240  
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<210> 4231  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559193H1  
  
 <400> 4231  
  
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 gtttagtctg gcaccaaaga aaaccagggc agactcctaa accactgatc acctgggcat 180  
 ccaatagggga acctgggggc cctgatcggt ttataggcag tggatctgga acagatttta 240  
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<210> 4232  
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 <212> nucleic acid  
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 <223> Clone ID: 700559194H1  
  
 <400> 4232  
  
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 ccaaagaatg aatgggtgatt ggtctgtcaa tttagtgtc caagtgataa ttatgaactg 180  
 tcggtcttgg catgctgatg ggatgaagat gtttactcaa cttcatttca catatgaaca 240  
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<210> 4233  
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tgaggcagac agntgctgtg ggtgtcatca aancggtgga caagaaggct gcaggagct 179

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 <212> nucleic acid  
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<223> Clone ID: 700559196H1

<400> 4234

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 ttgcatcctt caatgatacc tttgtccatg ttactgatct ttctggcnag ganaccatct 180  
 gncgagtaac tgggtggaatg aaggtgangg ctgaccgaga tgagtcctct ccgtatgcag 240  
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<223> Clone ID: 700559201H1

<400> 4235

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 tggaaggatc agttgaaggc aactgtaaa gaggtaatn aagaaaaagg actagaacac 180  
 gttactgttn catgacttgg tggctgaaat cactccaaaa ggcagagccc tggtagctga 240  
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<223> Clone ID: 700559203H1

<400> 4236

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taggactncc tggaggctgt gcttttaact ttgtaacaga catttccgaa ccaaaggctg 180  
ctggggtttgc atgtttacag gctccaccct agggccagtg tcagagctgg ctttggggag 240  
ctgggcaagg aagaggaggc ccagcccaga ctcttctctg cctttctcaa 290

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<212> nucleic acid  
<213> Glycine max  
  
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cctgtctctg caagttctcc taacgacagt gacctctgcc ctgttctgt atttcgaaac 180  
cttgcgctact tttgtccatg acagccctgc ctttaatttg gtgtttgctc tcggatctct 240  
gggcttgatc tttgcgttga ctctgcacag acacacgcat cctctgaa 288

<210> 4238  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559205H1  
  
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gttgtctacc cttggacca gaggtacttt gatagctttn gggacctgtc ctctgcctct 180  
gctatcatgg gnaaccctaa ggtgaangcc catggcaaga nggtgataaa cgccttcaat 240  
gatggcctga aacacttga caacctcaag ggcaccttg ctcatctg 288

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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559206H1

<400> 4239

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ataatttgca aaatggtgaa tgaatacaag gaaattgtnc ttataaaagg attagaggat 180  
atgaaggnet atgcatttag aaccatcaag tccttactaa gaaaagaact anacctaact 240  
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<210> 4240

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559208H1

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ctgatcgnea cctggcncaa gaggcaggct atntgctnac tcatgcgctt ccgctccacn 180  
nggntctaca caaccagnct agaagcctct gtcacgagcc cccaagtaag cggcttgga 240  
aatccagccg gattccagaa tcacattctc tgggcaccn ctcttctcgn cc 292

<210> 4241

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559209H1

<400> 4241

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cattgacaag gcaagcattc tccattacac caaacgggcc tgaagtcttc ctgcttgatt 180  
accctagtca tcaacggcgt ctgttacctt tacttgcaaa ggtatatgca atgagttttg 240  
ccgcaaatga gctcaaaatt atgtatgtca acagaacgcc caagtcaaac a 291



<210> 4242  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559210H1

<400> 4242

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 gtctctgggt tctcactaac cagctacaat gtgcactggg ttcgacagcc tacaggaaaa 180  
 ggtctggagt ggatgggagt aatatggact ggtggaagca cagattacaa ttcagctctc 240  
 aaatcccgac tgagcatcag ctgggacacc tccaagagcc aagtttt 287

<210> 4243  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559212H1

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 gttgtgagca ccaaaccaaa ccacattggt tgcaaggcac aaaagcaggt tgtccaagag 180  
 ggtgaggaca ctactaacat tgtctctcgc aggttgcccc tcaactgttct cattgggtgt 240  
 gctgctgttg gctctaaggt tgcacctgct gatgctgcct atggagaag 289

<210> 4244  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559213H1

<400> 4244

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cttccccacc accaagacct acttctctca cattgatgta agccccggct ctgcccaggt 180  
 caaggctcac ggcaagaagg ttgctgatgc cttggccaaa gctgcagacc acgtcgaaga 240  
 cctgcctggg gccctgtcca ctctgagcga cctgcatgcc cacaaactg 289

<210> 4245

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559214H1

<400> 4245

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 ctggagtcc agggccgcgt cctggaagac tggtttgact ttaaactcta tggcatccaa 180  
 gatagtatca cgatcatcct atccaggaag agggagggga aagccccatc tgcgcccagc 240  
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<210> 4246

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559215H1

<400> 4246

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 atgcttcacg gactccgtgg ccttgaaagc tgtcatagag ctctgtatag cggacatact 180  
 agaccgttat ggtaaaccac tatccttgtc gcaaattgtg gagaacatag aagacgcacc 240  
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<210> 4247

<211> 100

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559217H1

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 tatgtcanna ccaaggatnc ctacaaactg cagcgcaggg 100

<210> 4248  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559220H1

<400> 4248  
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 ccaaagtgtg catcagggcn tccattgccg ttgagcaaca aanttcccag actaagggtg 120  
 ctctcctcag aattggtacc agaggaagtc cactagctct ggctcaggca tatgagacca 180  
 gagacaagct catggcatca catgcagagc tagcagaaga aggggctatt cagnttgtaa 240  
 taataanaac nactggtgac aanatactat cacagccact tgcagacat 289

<210> 4249  
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 <213> Glycine max  
 <223> Clone ID: 700559223H1

<400> 4249  
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 aaaaagctga ggaagagtaa gccccattgc agccggaacc ctgtcctggg gagaggaatc 180  
 ggcaggtatt cccgatctgc tatgtattcc agaaaggcct tgtacaaaag gaaatactct 240  
 gctgccaaga caaagggtg 259

<210> 4250  
 <211> 130  
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 <223> Clone ID: 700559224H1

<400> 4250  
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gatnagggttg 130

<210> 4251  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559226H1

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aaaagcctga gctgatgtga agtgggaagc ttcttgagc ctttgttcct gatgtctgtc 120  
ttctgtctgt agttctgcat atgtgttctc agtgtagtg tcaaggtttg ctgtcctttg 180  
cattacagtg ctgcggactc ttgtggtttt cctaagacaa tagtgtactt gattttgtat 240  
tcggagagag ctctcgtaga gcggaccctt agagaatgtg gttgt 285

<210> 4252  
<211> 190  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559227H1

<400> 4252  
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taatttaaag taaaaacaag caaagattaa accttgtagc ttttgcataa tgaattaact 180  
agaaaatcct 190

<210> 4253  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559228H1

<400> 4253  
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 ctcttgttcc tctatagtga gcctctaaga ggagtgccat taaagcagtt ctagctgggtg 180  
 agaaggtggg ccctgttctt gcctcgagag gatgtcgggt gttaccgctg agggacagcc 240  
 accctctggg gaaagttggg anaaacacag cgcagnggg tgcctctt 288

<210> 4254  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559229H1

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 aatggttctg aggaggaaga agatggagca gcgcttcacc ttcttctgct gttgatttca 180  
 tggccacctc ccagtccag catcgctgcg ttttcgttgg gaatataccg tatgatgcca 240  
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<210> 4255  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559230H1

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 agtggaaagt acgtgctggg gtacaaacag actctgaaga tgatcagaca aggcaaagcg 180  
 aaattggtta tcctcgccaa caactgtcca gctttgagga aatctganat agaatactat 240  
 gccatgttgg ctaaaactgg tgtccatcac tacagtggca ataacattg 289

<210> 4256  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559231H1

<400> 4256

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 gaggacttat tcttggctgc agttcctagg cccttcctct aagaaacaag gcagactcag 180  
 gaagcaatca tgggtgctctc tgcagatgac aaaaccaaca tcaagaactg ctgggggaag 240  
 attggtggcc atggtggtga atatggcgag gaggccctac agaggatgt 289

<210> 4257  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559233H1

<400> 4257

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 gcccgtgtct gggttgagtt tgatgtgttt gacgggtgtt cacgtgtccg tgtccggtgt 180  
 tcgtgtcagt gtcggtgctt catagttgcc gtttgctaca acgaagagat actgagtcaa 240  
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<210> 4258  
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<223> Clone ID: 700559234H1

<400> 4258

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 ggagggctcc aacaaactca ccattcctca aggctgccct ggcttgcttg gagccctggg 180

gccaaggga gaggtggtg ccaaaggaga tagaggagag agtggccttc ctggacaccc 240  
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<210> 4259  
 <211> 286  
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 <213> Glycine max

<223> Clone ID: 700559235H1

<400> 4259

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 agttttnggg tgccgaggtt aaggttggtg agtctgttaa ggtagatcca gccgaattcg 180  
 aggcattcat acacctttct caggctgctc ttggtgangc aaagnnagan nnatcaaag 240  
 aaccagttgt tctctacttg anagttggtc aacagaaatt tgtctt 286

<210> 4260  
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 <213> Glycine max

<223> Clone ID: 700559236H1

<400> 4260

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<210> 4261  
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<223> Clone ID: 700559237H1

<400> 4261

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 ggccaatccg tttgggggtg cctctcacgc aaagggaatt gtactggaaa aagtaggggt 180

tgaagccaaa cagccaaatt ctgccatccg gaagtgtgtc anggtgcagc tcattaagaa 240  
cggcangaag atcacagcgt tcgtgccccaa tgacgggttg ttnaac 286

<210> 4262  
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<212> nucleic acid  
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<223> Clone ID: 700559238H1

<400> 4262

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agccccaccg gaaccttgca aaactttccc ttgtgtttg tctgctcgtt gatattccag 180  
ctcactatgc aagttgtgag gacaagaggc cagaggccaa ggaccagga ggctccggca 240  
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<210> 4263  
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<212> nucleic acid  
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<223> Clone ID: 700559240H1

<400> 4263

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gacagaggag tgtctgctga gtacagtttt ccactatgca agaccagtca cactgtcatc 180  
tgaggagggtg tgtggcgga actgggctgn ctgcgcgga ctgcgtcatt cgctgtgcgg 240  
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<210> 4264  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559241H1

<400> 4264





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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700559245H1

<400>      4267

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caagttctgg gaggtggttt gcgcggagca cgggatcgac cccactggaa ggtacggtgg    180
ggactcagag cttcagctcg agaggatcaa tgtctactac aacgaagcca gctgcggccg    240
gttcgtgccg cgcncggttc tcatggacct cgaaccgggc accatgga                    288

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<210>	4268	
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gcgctgcaca ggggtccccc ccccaaccgg cctgataagg cgcaaggct gggatacaag		180
gctaagcaag gttatgtcat ttacaggatc cgtgtccgcc gcggtggtcg caagcgccca		240
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<210>      4269
<211>      289
<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700559248H1

<400>      4269

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cacgaagcct gcgggagcag aagtaaggga tgctgaagcc cggaacaagt ggttggactg      180
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<211> 288

<213> Glycine max

<400> 4270

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gctggctatg cccctgttct ggactgccac acggcccaca tagcatgcaa gtttgccgag 240

<210> 4271

<211> 287

<212> nucleic acid

<213> Glycine max

<400> 4271

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tcccacatca ctgaaatcat catcaccagc ttcttccgcc acaagtctta aattacaaca 180

atttcctca attattcatc aaccaaccac cttaatagcc ttttccaatg gttccttaaa 240

gatccaactt ggtcggagta aacatggcgg ctagtggaag ttccttt 287

<211> 284

<212> nucleic acid

<213> Glycine max

<400> 4272

1548

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 actgagaaca gagctttcca aggctagccc tgtgctgagc ctgaggtaaa gttaacttca 240  
 accacatctg gtggctgagg actgggaatg atggttctca aagg 284

<210> 4273  
 <211> 276  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559252H1

<400> 4273

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 tctccgaatg aaaactggct atggtgagcg ttcttcggag gtaaaatgcg caagtttttag 180  
 gcttgctgtg gaagcacaca acatccgagc ctttaaaacc attcctgaag agtgcggtga 240  
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<210> 4274  
 <211> 94  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559258H1

<400> 4274

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<210> 4275  
 <211> 214  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559259H1

<400> 4275

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 gtgttctaaa acccctacaa atatgccgta ctaagtcact gaattgtata agtgggcaaa 180  
 tgtatactat gttaaactatc aataaagaat ttaa 214

<210> 4276  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559260H1

<400> 4276

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 ggaagggttt gaatagcttt tcttagttgc tcaatagatg gtgtcaacac cgtgtcacag 180  
 gccggcctgt ggggtgtgggc agtgctgggg agctgatttc catgaagtat aactggggag 240  
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<210> 4277  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559261H1

<400> 4277

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 ggattctcat cctctcata taagttotta tatgaagctt ccaactcctg agagcatggg 180  
 tcatcatgac tcaccaccaa atcatcaatt tccaggaaat atgcttcgtc ctcttttcca 240  
 tcaaacaaac aatggactag cagggtttga tcttcccggt catcat 286

<210> 4278  
 <211> 286  
 <212> nucleic acid  
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<223> Clone ID: 700559262H1

<400> 4278

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aggcatgtca atcatttttaa ttttcccgt ahtagaaaat atttccatga tatgatcctt 180  
ggtcacattc ctggtgagcc tcccaatgtg cactttggtg ggtttagggtg aagggctccg 240  
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<210> 4279

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559263H1

<400> 4279

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gagccccgaa tttcggttcg ggtcggagct ccagtttcag cagcttggac tcgtgtttga 180  
gtgatgattg gggagagctt ccgtttaagg aggacgattc agaagatatg gtgttgtagc 240  
gcgttctccg tgacgcagtt aatgtggggg ggggtccatc cctcga 286

<210> 4280

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559264H1

<400> 4280

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cctattatca accctcctca gtctgcaatc ttgggtatgc attccatagt gagccgtcca 180  
acggttggtg gaggaaatat tgtccaaga ccaatgatgt acgtggctct aacatatgac 240  
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<210>	4282
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<400> 4282

<210>	4283
<211>	284
<212>	nucleic acid
<213>	Glycine max

<400> 4283

1552

664227-66460

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gccccaaaacc gtcacctggg accgagacat gtaatcaagc tcta 284

<210> 4284  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559269H1  
  
<400> 4284

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cgtgcacctc tctgtccaaa gcaccatcgc ctgccccac tgtcaaagcg gtttcgtcga 120  
agagatccgt gccggcgccg gagccgaagc ctcgccacgc catcgactaa gtcctttccc 180  
cgatgatcct cttttgctcc ggcgacaggg cttccgccgc cgtaggagag aagcttccgg 240  
caaccgctcc ccgttcaacc ccgttatcgt cctccgcggc cccgg 285

<210> 4285  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559270H1  
  
<400> 4285

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gttccttaca ggancagaaa tgantcaaag acagcngtat taccnaaanc catccnccac 180  
cttgggtgnc anctcncaan tgccgagnac ctagagcata ctgcatagcc tgcaggcagc 240  
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<210> 4286  
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<223> Clone ID: 700559271H1  
  
<400> 4286



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ggcctttaac aatgaaagca gagtgactgg gatagtgaca agtatctgta atcccaggat 180  
tgcaaggggtt ganatgggag ggtcacaggc tcanagtgga gactaaaagc atgggaatgc 240  
tttaacaagg aaaggggaaga tgagaatcca tctgtagcag ccca 284

<210> 4287  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559272H1

<400> 4287

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ccaatctcca tttggcttct ccagaaaagc ctcctttctt gttaaggcag ctgctacccc 180  
ccctgtcaag caaggatcag acagaccttt gtggtttgca tcaaagcaaa gtctttctta 240  
cttgatggc anccttccgg gtgactatgg atntgancct ctggga 286

<210> 4288  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559275H1

<400> 4288

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tggtgggaaaa gatccttgat gctaccgtct cagagaaact cccagtattg gctacggatg 180  
agaagtacaa tgaagctatt tttagcactg ctaaaccggct agcggctgcc atagatgggc 240  
tttcggatcc tgggtgggcca acagttaaag acaacaaacg tg 282

<210> 4289  
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<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559276H1

<400> 4289

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 aanattgact ccgaaactgg agcagttatc atggaaccta atcatctaaa tgtgtatgaa 120  
 caactgatag accataccaa ggccttaac ggacgcactt acaagttggt tagtcaactt 180  
 ctggaacatg cacaagctca aacaacacga tgattgtgta ggtagatcaa tgagagtatt 240  
 tgtnttatct atccggatgc atc 263

<210> 4290  
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 <213> Glycine max

<223> Clone ID: 700559280H1

<400> 4290

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 ctcttcgacc ctaatcttcg cctatccctc tctccacca aaccctcacg cgccgtcatc 180  
 gccatggccg gcaccgggaa gttctttggt ggtggcaact ggaagtgtaa cgnaacaaaa 240  
 gactcaatca gcaagcttgt tgctgacttg aacaatgcaa aattgga 287

<210> 4291  
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<223> Clone ID: 700559281H1

<400> 4291

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 ctagatcgcg 130

<210> 4292  
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 <212> nucleic acid  
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<223> Clone ID: 700559282H1

<400> 4292

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 ttaantatct tcntncatg 79

<210> 4293  
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<223> Clone ID: 700559283H1

<400> 4293

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 ttttccaaag tactgagaac aaaaccctaa gttcccctag gtcttgtaac tcagcaaggc 180  
 ttgtgaatgt gaaaataaca gtgcccaatc acattctgct ttaaaaaggt aaatacagat 240  
 gagatanaan gaaananaaa aganacacgn annannngaa g 281

<210> 4294  
 <211> 283  
 <212> nucleic acid  
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<223> Clone ID: 700559287H1

<400> 4294

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 aactggctat ggtgagcgtt cttcggaggt aaaatgcgca agttttangc ttgcgtngaa 180  
 gcacacaaca tccgagcctt taaaaccatt cctgaagagt gcgttgaacc aacaaaggac 240  
 tacattaatg gcgaacaatt tagatcagac tctaaaacag tta 283

<210> 4295  
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 <213> Glycine max

<223> Clone ID: 700559288H1

<400> 4295

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 ttctcaact gctacgtgtc tcagttccac ccacctcaga tagaaattga gctactgaag 180  
 aatggaaaga agataccaaa tatcgagatg tcagatctgt ccttcagcaa ggactggtct 240  
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<210> 4296  
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 <212> nucleic acid  
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<223> Clone ID: 700559289H1

<400> 4296

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 agtctctgct ctgagactag agcaatcaca ggacactggt gtgtggaagt gccctgtcac 180  
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<210> 4297  
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<223> Clone ID: 700559290H1

<400> 4297

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<210> 4298  
 <211> 285

<212> nucleic acid  
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 tgcagaaatt caagaacaac agagccttct gaaaacttat gaggtcatgg tgaagaagtt 180  
 ccaatctgaa atccagaata aagattcaga gatccatcaa ttacagcagc agattgagga 240  
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<210> 4299  
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 gcagtcacag ctttgatagt ttttaaaatt caccagtgtt gagaaagaag tgagttttaga 180  
 aataggcatc ctaaataatg acatcactga tttcagtggc cacaattact ctgctgtgct 240  
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<210> 4300  
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 ttgttttcca aagtactgag aacaaaaccc taagttcccc taggtcttgt aactcagcaa 180  
 ggcttgtgaa tgtgaaaata acagtgccca atcacattct gctttaaaaa ggtaaataca 240

gatgagatan aanaaaaaaa anaaganaaa naanaagnng nanannnc 287

<210> 4301  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559301H1

<400> 4301

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gccaaagatcc aagacaagga aggcattccc cctgaccagc agagactgat ctttgctggn 180  
naacagctgg aggatggccg cacctgtccg actacaacat ccagaagagt ccacttgcac 240  
tggtgctgcg tctnccgggt ggnatcatcg agcngtcct tngtcagntg cccanaagta 300  
naa 303

<210> 4302  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559302H1

<400> 4302

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<223> Clone ID: 700559303H1

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 cagggccctc actggggtag atgctaccac caccagcct agggacgatg ggccctgagc 240  
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 attactttga ctgagaccg actaatctgg taaaaatct aaggaaagat ggggaagaagc 240  
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<223> Clone ID: 700559308H1

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 accataagca tttgggcaac gagatgcccc gcaacaacct tctcattgag atgctgcagg 240  
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 ttggtgctgc tgctgttggc tctaaggttg cacctgctga tgctgcctat ggagaagctg 180  
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<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559314H1

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gttatcatga tgggtcaaacc aaaaatacag ttcatccagg gaactgatga acaaacaata 180

cccgatgtga ggctgaccaa atcaagggat ggaacaaatg gcatggctat cttcacattt 240

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<211> 301

<212> nucleic acid

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<223> Clone ID: 700559315H1

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cangccagcg gttcaaaacc cggaaaaggg atgaaaaaga gaaattcgaa cccacagtct 180

tcagggatac acttggtccag gggcttaatg aagctgggtga tgaccttgaa gctgtagcca 240

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<213> Glycine max

<223> Clone ID: 700559316H1

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 ggtgttacaa ctcaccaaag ttggcagcaa cggcgtgccc acctcgggat ctctcggtcg 240  
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 caagtgggtg ggtaacagga aggaactggc cactgtcaga accatctgca gtcattgttca 240  
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 cttc 304

<210> 4313  
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 gtcggtnata agtctcagta gacccggaat gtcacctcgc cgagatcagc tggganaatg 240  
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<223>      Clone ID: 700559319H1

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<210>      4315
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<212>      nucleic acid
<213>      Glycine max

<223>      Clone ID: 700559320H1

<400>      4315

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tgcaagccca agtcgggctg cctccctccc tggtnagaag gnccattaga gnt              293


<210>      4316
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<213>      Glycine max

<223>      Clone ID: 700559323H1

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ttatnaccgt gtcctcctg aaggtctaca tgttcaagtg tgtttngact gctacagatt    240
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<223> Clone ID: 700559324H1

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 cgccaagctg aaggagaagt atgagaagga tattgctgcc tacagagcta aaggaaaacc 240  
 tgatgcagcg aaaaaggggg tggtaaggc tgagaagagc aaaaaaaaaa aaaagg 296

<210> 4318  
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 <212> nucleic acid  
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<223> Clone ID: 700559325H1

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 gcttgtcagt ccatctctga attggtgtta agaaagactg taagaaagac atatctcggt 180  
 cgctttcaac cttagantgc aagcttttca agtgcaacct ctcttggttg cctcttttgt 240  
 ccatcagtgg tattttattt aattgctcaa gagcatgcag caaaacccca tgct 294

<210> 4319  
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<223> Clone ID: 700559326H1

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tanttttaaag taaaaacaag caaagattaa accttgtagc ttttgcataa tgaattaact 180  
 agaaaat 187

<210> 4320  
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<223> Clone ID: 700559327H1

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 tgcgtatcaa gagcgcctta agaattggga antcagagan cgatagcann ctaggganta 180  
 tgaganggag gcggaaagag aagaagagag cagaagagaa atggctanag angctacacg 240  
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 agaaggtggg ccctgttctt gcctcgagag gatgtcgggt gttaccgcgt agggacagcc 240  
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 tgcagcagat cgcgatgtcc ctccgcggga aggctgtggt gctgatgggc aagnacacca 240  
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<223> Clone ID: 700559331H1

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 agtcttacac aaagtcctaa aacagctgga agaactgttg agtgacatga aggctgacgt 240  
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<212> nucleic acid  
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<400> 4325

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<223> Clone ID: 700559333H1

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<223> Clone ID: 700559335H1

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<223> Clone ID: 700559339H1

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[illegible]

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gaactcttgc aggctgttaa atctgtgttc tccacgccga ttcccaaggt tttggtgaac 180
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<223> Clone ID: 700559349H1

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<223> Clone ID: 700559350H1

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<212> nucleic acid  
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gctgagtacc attgccaccg gattggccat tgatgcatat ggtccaatca gtgacaatgc 120  
tggaggttnt gctgaaatgg ctggtatgag tcacagaatt agagagagaa ctgatgccct 180  
tgatgctgcc ggaaacacga ctgccgctat tgggaaggga tttgccattg gttctgctgc 240  
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<210> 4342  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559352H1

<400> 4342

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atgttacacg atggggttcc attgtacact actaccatta ttgggttgga atttgtgaga 120  
tttaagcaaa aatacaaact tataaactga agatattgca gccccatctc ccattctcct 180  
tttgtactgt tctggccttg caggctgtat aagttatctg acagattgtg caatcattgt 240  
aaacatgtat gctgacatac tttagtgaat cacataaagc aatatggt 288

<210> 4343  
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<212> nucleic acid  
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<223> Clone ID: 700559353H1

<400> 4343

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aagctcaggc atatgggtat cagaactaga atcaaaccta gacacactgt gggacaacat 180  
cgaagcatca ctctcgaaat cctcatcagt ttctgacctt ttcccgttac aacagtttct 240

cttcacgttc ctctgcaaag tccttgccgg tgcagaccct gca 283

<210> 4344

<211> 83

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559355H1

<400> 4344

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caattgtnac cnnctccact ttc 83

<210> 4345

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559356H1

<400> 4345

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ttncgaggcg agcgagtngg tccgncatcg gagtcccaa acacacacac ttctgccant 120

ttatgagcac gagatcccgat aattcgatac aggagtaggg gtttcgnnnn nnnnnnnnnn 180

nnnnnnncct gctctcaagc tctgcgtctt gttactcatt cttctcggat tagtgaatgg 240

tncttttgcg gagaatgatt anggacnoga cgaaacgttg ttaanagttg g 291

<210> 4346

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559357H1

<400> 4346

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ttgggaagtt tctttcctgc atgaagggtgt tttcttcttg tctggacttc ctttcatatg 120

gcttgagagg gcagggtgga tgagcaagta caaaattcag gccaaaaata acaccctga 180

tgctcaggag aaatgtattg ttcgcctgtt gctttaccat ttggtgtcaa tctacctgtt 240

atgggtttttt catatcccggt cttcagatac atgggcatgc ggatagt 287

<210> 4347

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559359H1

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ccatcggcac cggccaccgg tttcccggtg agctacagca ccagcaccac ggaggctgag 180

gtgtattcgt attcatacgg tccagttgta gtaccagtac cacctcccca ccctaaacct 240

attgtggaat ggtcaaccgg cctctgtgat tgcttttccg attggggaa 289

<210> 4348

<211> 212

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559360H1

<400> 4348

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ctgtgtatat gttttcttgg ttgaatacta atatgggtct gtaattacat aggttttagg 120

tttcagtctg taatatgggt ctgtaattac atgggttttg caactgattg atctttcttt 180

gcattcggca tttaagcatt gttttaaaact ca 212

<210> 4349

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559361H1

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agaaaaatgcg agtggcgagac caccggttaa gaagcaaagt gccggcgagt tgcgtcttca 180  
 caaagatata agcgagctga atctaccaa atcatgtacc atgcaattcc ccaatggcaa 240  
 agatgacctg atgaactttg aagtttcaat tgcacctgat gatggatatt 290

<210> 4350  
 <211> 136  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559364H1

<400> 4350

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 gcgctctaca attnac 136

<210> 4351  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559365H1

<400> 4351

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 gcattaccag ctgatcttgt caagagagga ttggcagttg aggatccctc tgccccacat 180  
 ggtcttcgcc ttgtgataga ggactaccct tatgctgttg atggacttga aatatgggat 240  
 gctattaaga catgggtcca tgagtatgtc totgtgtatt acccaacaaa tgc 293

<210> 4352  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559366H1

<400> 4352

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gttgatgag aacaacttca agagagttgc acagttcatg aatgaaatta aaatcctagc 120  
aaagttagtt catccaaatc tgtgaagtta tatggatgca cctctcgcca cagccgcgaa 180  
cttctgcttg tatacgagta cattcctaata ggaaccgttg ctgatcatct tcatgggtcaa 240  
cgatccaaac ctggaaaact cccttggnat attagaatga aatgcgt 287

<210> 4353  
<211> 107  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559367H1

<400> 4353

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tgntgcanaa cttgccancc atgaactgaa gcaccagcac ataccca 107

<210> 4354  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559368H1

<400> 4354

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gaaagcaatt gaggagcttc ttagagggcg tgattctgcc caacaactta agagtgtcat 120  
caatgggact tatgatgatg gatcagccac cccatttgct caacaacttg tgaaagaggt 180  
gctcatgtcc ttcacaaaact ccctcttggt cttgcacaac aacccccactt ctgaatcaca 240  
tgcatgtctt caatgttcaa gtatgggact ctcccaagtc tgaggac 287

<210> 4355  
<211> 288  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559370H1

<400> 4355

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ttctggatcc gaagaagaac tggttcgccg ctcagcacat gaaatccctc tccaaacgcc 120  
 tccgcaaata tgggctccga tacgacgatt tgtacgatcc ttactacgat ctggatgtga 180  
 aggaggcgct gaatcggtt ccgaaagagg tggtggaacgc tcgccacgcg cgtcttaaac 240  
 gcgcccacgc atctttccat gaagcacgag tacctccctg acaatctg 288

<210> 4356  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559371H1  
 <400> 4356

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 agaaatccca accgcaggag gatgatgctc ccgttgctga ggacgtgagg gnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnacaaggaa gacgatgctc 240  
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<210> 4357  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559372H1  
 <400> 4357

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 ttogaagctc tcaccttcaa catccacggc ggcttcttag aggccatcgt ccgnggccac 120  
 cgcgcgggcc tcctcaccac cgccgattac aacaacctct gccaatgcga aaccctcgac 180  
 gacatcaaga tgcacctctc cgccaccgag tacggctcctt acctccaaaa cgagccttct 240  
 ncattgcata ccacaacgat tgtggagaag tgtatcttaa gtgggtt 286

<210> 4358  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559373H1

<400> 4358

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atttgataag caaacccctg gagaagaaac taatttcgct attgggagga gaaatttaac 180  
tgcttgcca agaaacaatg aaaggatttt aaacatggat aaagatgtat ctggttctgc 240  
taagtgtcat ccggtcaatg caccagagaa ggggattgat tcagac 286

<210> 4359

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559375H1

<400> 4359

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cacaagtgtc tacacttcaa atggcttttg aagctcttca atcaccacc ananccactc 120  
catcgtttag tccctttgaa gaaaccagtc tcagttactt agagacaccg tggacgaaag 180  
gaaagcgttc taagcgtanc gccacggagc aacaactgca acacccttcc atgcaccgag 240  
gaagagtacc tcgctctttg tctcatcatg ctcgntcgcg gcggcgcg 288

<210> 4360

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559377H1

<400> 4360

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acgagggcat ctcgtacatc tccgagganc ccttcgtcat cctcgacatg ttcacctatc 120  
gcagaatcac cgtggacgta aaaaacgagg ttgcagtggc cgaagctgga gcaacacttg 180  
gagaagtta ttacagaatg ctgggagaag agtaaagttc ttggctttcc agcaggggtg 240  
tgtcccactg ttggcgctcg tggccatttc agcggcgag gtacg 285

<210> 4361  
 <211> 131  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559380H1  
  
 <400> 4361  
  
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 ctgacggcag g 131

<210> 4362  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559381H1  
  
 <400> 4362  
  
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 atggctctct catccccatc cttggctggc aaggccgtga agctggggcc atcagcccca 120  
 gaagtgggaa gggtagcat gaggaagacc gtcaccaagc aggtctctc aggaagccca 180  
 tggtagcgcc cagaccgagt caagtacttg ggccattct ctggcgagcc cccgtcctac 240  
 ctaaccggtg agttcccagg cgactacggc tgggacactg ctgggtttc 289

<210> 4363  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559382H1  
  
 <400> 4363  
  
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 ccaggttcaa aaggatttgt gtgtntctgtg gcagcagncc tgggaacaag agtagctata 180  
 aggacgctgc tattgagctt gggaaagagt tgggtgtcaag aaatattgat ctggtttatg 240

gaggaggaag cattggtttg atggggttgg ttcccaggct gtttatga 288

<210> 4364  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559383H1

<400> 4364

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ggaggtgggc catgctcgcc actctcgag ctctcactgt tgagtggctc actggtgtta 180  
catggcaaga cgccggaaag gtggagctag tggaagggtc atcntaccta gggcaaccac 240  
ttccattctc aatcaccana ctgatctgga tcgaggttct cgtaat 286

<210> 4365  
<211> 232  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559384H1

<400> 4365

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tgtctcttc ttctttctcc ccgccactc tcaccaccga gcaggagctt tccgtcatcg 120  
ttgccgccct taccaacgtc gtgcgcggct ccacctccgc ctccagctcc ttctccctcc 180  
ccgaattccg ccttcacag acctctgate ctctcgccgc cgctgccta at 232

<210> 4366  
<211> 279  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559385H1

<400> 4366

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agacagctat ctctgctctt aaggctgcca aattgagatg gcctcccttg tttgatgggtg 120

tggnatcaac catagaagat tggattgttg accagatgat acagtacggc cagtgggtgga 180  
aactggatat gaaactcttt nacttgnag gtgtngcttg agactagagt ncccatccat 240  
caggaagtct tccgtttcga aggggctcaa attgaggaa 279

<210> 4367  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559386H1

<400> 4367

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gatgtgaacc gtttaccttc tgtggttgat tgcgaagagg aagcaggtgt ttcattctcca 180  
aacagcacgg tttctagcgt cagtggaaag cgcagntnga gggaaaccaa tggagaagaa 240  
aacgacacag acagagcttg ttccagaggc atcatcagcg acgaag 286

<210> 4368  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559389H1

<400> 4368

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agtctctgcn ctcagantag agcaatcnca ggacactggg gtgtggaagt gccctgtcac 180  
atcatttcaa ggttgcnntc ccaaaatgtn tttatatant ttgatttcan tgtatggtaa 240  
agttttgata aaatttggcc agtttttaca gaagnantta tttc 284

<210> 4369  
<211> 282  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559390H1

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 tggatctcaa cattaatccc cgcagagttc atgaagaagt tcccaaggag gtagaaagcg 180  
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 aggaggaact gaagcgggtg actgcagaaa acaagaagtt gg 282

<210> 4370  
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 <223> Clone ID: 700559391H1

<400> 4370  
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 nactagaagg cantcctaac tctgncagaa ngaccttcgg agttnaacgg tncaagtctc 180  
 cgcaacttct ggnttgcgaa acagaaggcg tgttctgcga gcggaggtag ctctccggca 240  
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<210> 4371  
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 <223> Clone ID: 700559392H1

<400> 4371  
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 tgccgggaccc acggctctac ccgcaacgtc aaaaacgctg cccggacagc ttatatttgg 180  
 gttggaaaact ccgaaaactca gtgcncggg caatgcgcgt ggccattcca ccaaccatt 240  
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<210> 4372  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559393H1

<400> 4372

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 gcagtcaggt ctttgatagt ttttaaaatt gcaccagtgt tgagaaagaa gtgagtttag 180  
 aaataggcat cctaaataat gacatcactg atttcagtgg ccacaattac tctgctgtgc 240  
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<210> 4373  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559406H1

<400> 4373

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 acacagtcaa gttggccaaa cataaagagc ttgccccata tgatgagaac tggttctaca 180  
 cagcagctgc ttccacagca cggcacctgt acctccgtgg tgggtgcaggg gttggttcca 240  
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 gctcta 306

<210> 4374  
 <211> 307  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559407H1

<400> 4374

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cgcttcctt tttcaataaa atttttctta gtagccatta catttctact attcgaccta 180  
gaaatgcct tactacttcc cctcccatga gcgattcaaa caaccaatac cactacaata 240  
atagcaactg cctttatattt agtcactatn ttagctcttg gcctaagcta cgaatggaac 300  
acaaaaa 307

<210> 4375

<211> 305

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559409H1

<400> 4375

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cagcctcaca aagtgaccca gtataagaag ggcaaggatt cctgtatgc ccaaggaaag 180  
cggcgtacg accggaagca gagggttat ggcgggcaaa caaagccaat ttttcgaaag 240  
aaggccaaaa ccacaaagaa gttgtgctca ggcttgagtg tgttgagccc actgcagatc 300  
taaga 305

<210> 4376

<211> 304

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559410H1

<400> 4376

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caggccacag acaagcggaa ggcgctggaa gagacgatgg ctttcaccac ccaggccctg 180  
gccagtgtag cctatcaagt gggtaacctg gcggggcaca cgcttcgaat gctggatcta 240  
cagggtgctg ccctgcggca ggtggaagcc aagatgagca cactgggcca gatggtgaac 300  
atgc 304

<210> 4377  
 <211> 304  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559411H1  
  
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 gaggccccac accaaaacgc cccttcctcg ccgactgggt ctcccaaac gacgacctcg 240  
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 ccct 304

<210> 4378  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559413H1  
  
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 attaagaaga aatatggtca agatgcaata aatgntggtg acgaagggtg ctttgcccct 180  
 aacatccagg naaacaagga aggcttgaa ntgctgaaaa ctgccatcgc caaagctgggt 240  
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<210> 4379  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559415H1  
  
 <400> 4379  
  
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<210>	4380
<211>	306
<212>	nucleic acid
<213>	Glycine max

<223> Clone ID: 700559416H1

<400> 4380

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gagggactcc	tttgtctcaa	aggagttgga	gttttctggg	tttttgtggg	attggagatt	180
tagagagtgc	ccctgcactc	cctgttttat	ttcatcacca	tgattgccac	tgaaactata	240
gtgccgagta	caaaattgaa	gatcaagttt	tcaacaaaaa	gaaggaggtt	gagtctgggc	300
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<210>	4381
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<213>	Glycine max

<223> Clone ID: 700559418H1

<400> 4381

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acgcagatcc	ggtcagcgan	aacctgccac	ttcctacgtg	aggaccanca	ncaacaagaa	180
tgctcgggct	accctcagca	gcatcaggca	catgatccga	aaaaacaagt	accgcctgat	240
ctgcgtatgg	cggccatccg	nagagccagt	gccatccttc	gaagccagaa	gcctgtggtn	300
gtg						303

<210> 4382  
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 <212> nucleic acid  
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 <223> Clone ID: 700559419H1  
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 caaagtagcc gtagggcant gctttcactt gttgctgctg gtttgaccac tggctctttt 180  
 gttcaagctg tgcttgcga tgccaaacct atcaaagttg gancacctcc cccancttct 240  
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 aga 303

<210> 4383  
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 <223> Clone ID: 700559420H1  
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 gaggcaagat tacttaaagt gtgcagtgtc tggctcgggtg caggccactg accgntgat 180  
 ganggagctc aggatatat accgatcaca gagtttcaaa ggcggaaata ngcagtcgaa 240  
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 ttt 303

<210> 4384  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559421H1  
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 ctatgatcca accccatcac caccacaga ttggtggaagt tacaatccaa ccccatcacc 180  
 acccncaggc agcaactgtg gcacaccacc acatgacccc tctactccaa caccctcagt 240  
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 tcagg 305

<210> 4385  
 <211> 304  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559422H1

<400> 4385

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 caatacgcac caanaacctt ccaaactga aaagtgtctt cggtcctaat ggaagattaa 180  
 tggcaataac attgggacat gcattgngt catgacagtg gcacacttgg ttgctccagt 240  
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 ctgg 304

<210> 4386  
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 <212> nucleic acid  
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<223> Clone ID: 700559423H1

<400> 4386

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 ataaaggaca aacaagtga gtattttatc cattacagtg gctggaataa aaattgggat 180  
 gaatgggtgc caganagcag agtgctcaaa tacgtggacg ccaatttgca gaaacag 237

<210> 4387  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559426H1

<400> 4387

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 tcgcttggtg gaagagattc caaacatggg aaattccagt tgtgtgagca aggagccaag 180  
 aggttcacag atgacaatct tttatggtgg ccaagttctt gtcttgatg atattcaagc 240  
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 c 301

<210> 4388  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559427H1

<400> 4388

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<210> 4389  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559428H1

<400> 4389

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 aagatcaaaa cttgggaagg aacattcaca tccacatcag ggtocattca cacaggcata 180  
 tccttgattg aagattt 197

<210> 4390  
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 <212> nucleic acid  
 <213> Glycine max  
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 aagccgctcc tgctaagact aaggttacaa agccaaagca aaaggttgaa gatggtatct 180  
 ttggcacttc tggaggattt ggttttacta agcagaacga gctctttgtg ggtcgtgttg 240  
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 <213> Glycine max  
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 ctccccacc acaaagaacc caaggagttt gtctcgttgg accaacttgc tgaanttga 180  
 gtccttagct ggaaactaga tgctgataac catgaaaatg atccagagct gaagaagatc 240  
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<210> 4392  
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 <212> nucleic acid  
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 aaaaggaagg nntctcaagc attcagtgtg agtcccattt gtganttaag ggtgccactt 120  
 angaccag 128

<210> 4393  
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 anagtgc 187

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 ctttnacagg atcaaggaag agactcaana accaacanna ggtgttgtnc attgnngtan 180  
 ttgtttgtaa ctgtagcnac aggaagatgg ttggatagtt ggttntngtg aggetgtggn 240  
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 nancct 307

<210> 4395  
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 <212> nucleic acid  
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<210> 4399  
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 <212> nucleic acid  
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 <223> Clone ID: 700559442H1  
  
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 aaaaaggggtg aagatccata gggagtttgc tgagcttttg gaagaggaac tgcgcaaaag 180  
 gggctctgca gtaattccac ctggggaagt atttggttaag tggaaagggt taatgaggag 240  
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<210> 4400  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559444H1  
  
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 ttagacatgt caataatc acatgacaac gctcatgcg atagggccac gaggcgcacc 180  
 gacgacgagg tgatgtcaat gttcgaggag tgggttggtga aacacgacaa ggtgtacaac 240  
 gcgctcgtg agaaggagaa gaggtttcaa atcttcaaga acaatctgcg ctttacc 297

<210> 4401  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559445H1  
  
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 ttccggccat ggttgtggcc attcgcccag caaagaaccc tttttgcgtg aagggtcgcg 180

tctactgtga cccttgccgt gctgggtttg agacctcagc aaccactaca ttgccggtgc 240  
tgagattatg ttgcaatgca agagcnggg 269

<210> 4402  
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<400> 4402

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ncgcgnggga ggtgctcgat tgggctgtac agcaagacgc tnaaagagat ccagaangtt 180  
cccgaanatn aagggtaccg caaggccntn gagagcttca ccaancanag gctcngngtn 240  
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<213> Glycine max  
  
<223> Clone ID: 700559448H1  
  
<400> 4403

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tccaactatg ataggattgc naaatacctt aacatgtctc aaaagagagt cagaaatgcn 120  
actgaggcaa tcagcaanat tatctcgctt gatagagnag cantcccctc tctgantggn 180  
ctanaaggng aaactcatna tagttntant gcagatnatc gagnggagaa catncctgga 240  
atggagtagn ngagtngca ctnnnggatg aagtgnanag acncattaat gtgnccttgt 300

<210> 4404  
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<213> Glycine max  
  
<223> Clone ID: 700559449H1  
  
<400> 4404

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<210> 4405  
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<223> Clone ID: 700559450H1

<400> 4405

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tttgtccacc aaaagcaggt agttttctgg aggaacagca agaagggcag ctgcagcaag 180  
cagncagagt ctatgtgata acntgngcag caggtgactc acanacantg gtgattggcc 240  
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<210> 4406  
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<212> nucleic acid  
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<223> Clone ID: 700559452H1

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agcttctacc aagactttga tctaacatgg ggtggtgacc gtgctaagat attcaatgg 180  
ggccagcttc tatctctttc ccttgacaaa gtctctggct ctggcttcaa atcaaagaaa 240  
gaatacctat ttgggaggat tgatatgcag ctcaagctcg ttgctggcaa ctctg 295

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<223> Clone ID: 700559456H1

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 cgaggcagat tctctggtct aatgtctggc tggggttctc cgtctgcntc ncgnatccat 240  
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<210> 4408  
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 <213> Glycine max

<223> Clone ID: 700559457H1

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 ccttcgggtc accgctgatc atcctcngaa gaccgggtcaa cgagtctgcc tcagctcggc 180  
 tcggttccac ttttgggttt nccagaaagn aacggttcag ttcagtatgt atncccaaac 240  
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<210> 4409  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559458H1

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 ttatactaca ccatgaagct gtaggtacca atgaaacat aaaatgatgg aagatttgtg 180  
 aagccattct tttaccctga gcatctagga atttatcctc atagatttta gttctgactt 240  
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<210> 4410  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559460H1  
  
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 agcaaattca ctttcagtcc aaacggnaca ccaactggga gngananagt nacaccanaa 180  
 cataagcatc tgagaccatt tcaatgtgtg ctgacacagg ataacagang cattgccgtc 240  
 aagaatggca atgattcatt ggtcatntgt cgggttggtga atgggatgtg gc 292

<210> 4411  
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 <212> nucleic acid  
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 gctgcacggg actgaggacc aagatgcaaa ggcttagcag acaaaacagc aaaggccaag 180  
 tccctggagg tgggaccgtc cgccccactg aggaggcagc ctgcggtaca gcacgtgagc 240  
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<210> 4412  
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 ttcaagtcat ggactaataa ggtccccaag attgccgaga atggggaaga gggctcctgaa 180

atgtggttgg agttagaact caagctggtt ncggatgttg gtatagttgg tgctccgaat 240  
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<210> 4413  
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<212> nucleic acid  
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<223> Clone ID: 700559463H1  
  
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tccatctttc cagcgaattc agtttttctt ctcaaattat cctagttcat gccatgcagc 180  
agaaaatgag gtagattgag cagcaataag aataacaaat tgaactaatt gaaagatata 240  
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<210> 4414  
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<223> Clone ID: 700559465H1  
  
<400> 4414

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cctccgcagc cgcggagtct cagagatcca ttcccacgcc gtttctcanc aaaaccttt 179

<210> 4415  
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<213> Glycine max  
  
<223> Clone ID: 700559466H1  
  
<400> 4415

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ttgaaccatt tgtcatagcn acaaacaggc atcttagtgt gctccaccct atttataaac 180  
 ttttgttgcc tcaactatcgt gacaccatga acatcaatgg actcgcaaga caatcactca 240  
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<210> 4416

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559468H1

<400> 4416

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 acctatggca caatatatca tcaacatgaa tgcttcattg cctgcatctg acaagttcat 180  
 tatacatatc ttggatantn cccattatgg ttgttcaacc tcatgttgag caaatgatac 240  
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<210> 4417

<211> 96

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559469H1

<400> 4417

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<210> 4418

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559471H1

<400> 4418

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gaacccgctg cagctaaact catttgctcc cttaagcccg atctcaaaga ntttntctaa 180  
 aaatgtgtcg acgccaccaa aattgcagga ttgcgcccttg ncacctcagn tctcgtngtt 240  
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<210> 4419  
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 <212> nucleic acid  
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<223> Clone ID: 700559472H1

<400> 4419

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 tatngcat 128

<210> 4420  
 <211> 293  
 <212> nucleic acid  
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<223> Clone ID: 700559473H1

<400> 4420

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 ggantgcctg cctctgatca ttttcctaag gaacagactt aagtatgcc tgactggaga 180  
 tgaagtaaaa aagatttgca tgcagcgatt cattaagatt gatgggaaag tcaggaccga 240  
 tataacctac cctgctgggt ttatggatgt catcagcatt gacaagactg gag 293

<210> 4421  
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<223> Clone ID: 700559474H1

<400> 4421

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 ggagaaattg ccaggagaac tggagcctgt gcaggccgcc cagaacaaga cagggaagta 180  
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 cagagctgat gacaatgcca ccatcc 266

<210> 4422  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559477H1  
 <400> 4422

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 agatcaccga ggcgtgggct gtggctcaga gattggacct tgttgggcct attgttgaac 120  
 agcctgagta taacctcttg tccaggcaca aggttgagtc ggagtttctt cctctgtaca 180  
 ccaactatgg cacaggcctc actacatgga gtcctcttgc ctctggagtg ctactggga 240  
 aatataagaa aggagttata ccaccagata gcagattcgc tttggaaaa 289

<210> 4423  
 <211> 216  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559482H1  
 <400> 4423

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 cgcagngaac ttcaacnang tgctcntctc ataggtatta ctgtnatntg caactaccat 180  
 tcttctntnt ctctncnntt tgnnctngaa agacng 216

<210> 4424  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559483H1

<400> 4424

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tgaattagcg caagaccgga taattacttt gtgtgggtcat cttttctgct ggccctgtct 180  
ttacaaatgg cttcactttc actcacaatc acgagaatgc cgggtnnngc aaggccctcg 240  
tggaggagga gaagctgggt cccttgatg ggagaggaaa gtcgtcgact gat 293

<210> 4425

<211> 292

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559485H1

<400> 4425

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gttcttgggg ttactgtaca aggggagaac gagcagagct aaacaagaat ttaaaaagga 180  
cgaaggaagg agaccgccat cctgctcaga taaaaagatc taagaggggt gtttcccccg 240  
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<210> 4426

<211> 223

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559487H1

<400> 4426

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aggtggctgc ttactgcaat ggagtttttg gcaattgcag agccagtctt agttaattac 120  
tagtattctg tgtataatct ctctctacct tgggtcatag ctgggttttt tcttgcttga 180  
ccaggagaa ttagtcact taatatgttt ctcaagtgca tcg 223

<210> 4427

<211> 292

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559490H1

<400> 4427

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aggccaagat ncaagacaag gaatgcatcc cccctgacca gcagagactg atctttgctg 180  
gcaaacagtg gaggatggcc gcaccctgtc cgactacaac atccagaaag agtccacctt 240  
gcacctgggtg tgcgtcttcg cgggtggcatc atcgagccgt cccttcgtca gt 292

<210> 4428  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559491H1

<400> 4428

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tgggcaggct gctggttgtc tacccttgga cccagatgta ctttgatagt ttggggacct 180  
gtcctctgcc tctgctatca tgggtaancc taaggatgaag gcccatggca aganngtgat 240  
aaacgccttc aatgatggcc tgaaacactt ggacaacctc aaggga 287

<210> 4429  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559492H1

<400> 4429

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ataagacgca cacgtgtgcn cgccgctgtg gctccaaggc ctaccacctt cagaagtcca 120  
cctgtggcaa atgtggctac cctgccaagc gcaagagaaa gtataactgg agtgccaagg 180  
ctaagaggcg aaacactacc gggactggtc ggatgaggca cctaaagatc gtctaccgaa 240

gattcagaca tggttccgtg aaggaacaac acctaaaccc aagagg

286

<210> 4430

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559493H1

<400> 4430

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ccattccgca gcctcagtgc aagncccagg tcctacacat atggcgtgtg gagaagctga 120

agnccgtgcc catagcacga nagaaccatg gcatcttttt ttctggggat nctacctagt 180

gnntcacaat ngcacngaag aggcctcnca tctgcacctg tggataggcc agcagtcac 240

gcgcgatgac catggggctg cgctgtgcta gtgtgcacct canaacc 287

<210> 4431

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559494H1

<400> 4431

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aatggctatc ncttgcttcg ttgctcagtt gttccatttc atgccaatta tccactgtct 120

actcaaaccc aattgttagt tccttccaat cttagttact cctttgctac aacaggaacc 180

agaaagttca agtctttcca gctcaaggct ggattttggg aatcaattaa atctgggttg 240

atgaagaata atccatgcaa gtcgatgcc accctctgca gatgaagaga c 291

<210> 4432

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559495H1

<400> 4432

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cntatgcgtn gccttcggan ncccattgcy ccatttccca cgacgctaaa acctctnatn 120  
 tctnaacett tcagtntcaa tcgnttcctt ctacntctta naagntcant ttntcggctc 180  
 ggtcacntat tntcaanctt cctaaggctt ctgaatccgc ggttgcnгаа accgaaacng 240  
 gttgtncgag ccgaacngnc naaattgtcn cggctcagtn ctctggga 288

<210> 4433  
 <211> 166  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559496H1

<400> 4433

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 ctgggggnag ttggtggccn tgggtggtgaa atatggcgag gaggccctac agnggatggt 120  
 cgctgccttc acccaccacc nanacctnnt tctctcgna ttgatg 166

<210> 4434  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559502H1

<400> 4434

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 acctcatttt cagagatttc gtgcactcaa caaactctca tccacccatg gcgtcatcac 180  
 tatcaacaat agctctattc ctgccccaat cgctctatat taagccccgc ctggcgccac 240  
 ggctctttcc tccccctcaa ttccgctccc ttttcctaac ctcaccggcg 290

<210> 4435  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559503H1

<400> 4435

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ctgtttcaca anttgtttcg gaaaataata gtttgacatc acatgagata atagacattc 120  
caccttctag caaagttggt tccactcatg aagttactng tcacaatgaa tttcaaggga 180  
taactcctgt tggaaattct tctgccgagg aaaagggaga atctacagca aaagctgang 240  
aagcaggcac atctaccctc gttggatggt ctgagcagga aactgcttct 290

<210> 4436  
<211> 285  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559504H1  
<400> 4436

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ggaatttcca atgatnctta atttcttaca atccaatctg caaactgagt gagatatata 120  
acttgttttt gatttcttcc tcatcatttt gcntanacan agattaaaat ggaagggttt 180  
tntggaaatt gcttcaatat gantttgctg atgttggtgt tccaactt gagcatagct 240  
nttgctcaan gtcatatgaa tggatttgga gagcagccat ggcca 285

<210> 4437  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559505H1  
<400> 4437

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ccagagaacc cgacaatccc accaagttcc tgcaaggcca naggcgctga cctcagagtt 120  
cattttaaga aactagggga gactgccttt nccatcagga agttgcccct tgttaaagct 180  
aaacgatact tagaggatgt tttggcccac aaacaggcta ttcctttccg ncgcttttgt 240  
ggtggtgttg ggaggacggc ccaggctaag aacagacact ccaatgggc 289

<210> 4438  
<211> 286

<212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559507H1

<400> 4438

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 gggcgggtgc aggcccgggt cgggtttggc aagaagaaag ccgccgcccc gaagaaagtt 180  
 tccaggggggt cgggctctag ctccgatagg cccctgtggt atccggggcg caaggcgccg 240  
 agtacctgga tgggagcctt gtcggagata cggattcgac ccattt 286

<210> 4439  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559508H1

<400> 4439

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 tccttatngt gaatgcaacc atcctgcnc aanttngcnag naagnngtat ctgggnanaa 180  
 gccagaagct cnttacaang tagacaatcc cgagggttagg cagtttgtag agaaatgctt 240  
 agcaatgtgt ccctcagact ttcagctagg gaatcttggg ggacccttt 289

<210> 4440  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559509H1

<400> 4440

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 catattcacc accccaaaaa atgcacacg attcaattct gtnctttctc gtgatgtttc 180  
 atcaggcctc ccaatccggc tagtacaact ccattttcca tccaaagaag caggactacc 240



tgaagggtgt gagaatttgg acatggtagc ctcaaacgat ttg 283

<210> 4441  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559510H1

<400> 4441

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caacatataa tgatgttttt actgccaaaa tattagatgc tgagcagtgt aaagaattga 180  
aaatgggggc ctatcttggg gttgctgcag cctcagcaaa tctctctcat tttatccatc 240  
tgtgttataa accaccaact ggacctgtca atgtcaagtt agcattagtc 290

<210> 4442  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559511H1

<400> 4442

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cagatgagag cacgggcacc atcggaagc gcctagcgag cattaacgtt gagaacattg 180  
aggccaaccg ccaagccctt cgcgagcttc tcttcaccgc tccaaatgcc ctccaatacc 240  
tctctggtgt catcctcttt gaggaaactc tttaccagaa gacctctgat gg 292

<210> 4443  
<211> 248  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559512H1

<400> 4443

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gccttctcta ccttccacgc gaaccttctc tagaaaccga agcctcattg tcaaagnnnn 120  
 nnnnnnnnnn nnnagacgact tctccaaaag caggcgacgc ttcacgcgcg aaaccgcccgc 180  
 actctcggtc tcgctccctc agttagcggc gcgtgccgaa gacgcgcttt cggagtggga 240  
 gagagtat 248

<210> 4444  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559513H1  
 <400> 4444

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 ttcacagct ttagacatgt caataatata acatgacaac gctcatgcgg atagggccac 180  
 gaggcgcacc gacgacgagg tgatgtcaat gttcgaggag tggctggtga aacacgacaa 240  
 ggtgtacaac gcgctcggcg agaaggagaa gaggtttcaa atcttcaaga acaa 294

<210> 4445  
 <211> 272  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559514H1  
 <400> 4445

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 ctggacctgg ggtttcagct cccagttcat ccttctttgg gagcagcttg aagaagggtta 180  
 ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctgtag 240  
 aagagaagaa agagattgaa gagaccacgc ag 272

<210> 4446  
 <211> 231  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559516H1

<400> 4446

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ctaattggagg agtacggcca gatcctcggt gtgaactccg ataactggg atcgaaccag 120  
ctccagaaca ttcgcaaggg tctccgtggc gactccgtcg tctcatggg gaagaacacc 180  
atgatgaagc gctcagtcag gatgcacgct gagaaaaccg gaaacaacgc t 231

<210> 4447

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559517H1

<400> 4447

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cttgagatcg atggtttagc tcgctttgct gttgaagaac acaacaaaaa acagaatgcc 120  
cttttggagt ttgaaaaggt agtaagtgca aaacagcaag tggtttctgg taccttgtac 180  
accatcactt tggaggcaaa agatgggtggg caaaagaagg tttatgaagc caaagtttgg 240  
gagaaggcat ggttgaactt caaggaggtg caagagttca agcttgt 287

<210> 4448

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559518H1

<400> 4448

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agctccacnt gcatataacc aagggggcaa taggggtggc tatgggtggag atagacgcag 180  
agacaattat agtcgatgga ggtggttctg ggctgatag gcgtgancat tatggantcg 240  
ttctngtcca tactgagagc ttggn cattg aacgttttat gtacnnt 287

<210> 4449  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559519H1  
  
 <400> 4449  
  
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 aggccagctc catctgcctc tagccctgcc tccttcaaga ctgtggctct tttctccaaa 180  
 aagaaggctg cacctccaaa aaaagctgca gctgctgctc cngccaatga tgagcttgcc 240  
 aagtggatg gtctgacag aaggatcttc ttgcctgagg gtct 284

<210> 4450  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559520H1  
  
 <400> 4450  
  
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 tccctatccc tgacgtcatg aagtcctcca tccgcccga catcgtcaac ttcgtacact 180  
 ccaanatctc caagaacagc cgacaaccct atgcagtcag ccgcccgcgt ggccaccaga 240  
 cttccgccga gtctgggga accggtcgtg ccgtctcccg tatccc 286

<210> 4451  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559522H1  
  
 <400> 4451  
  
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tgacctaccc cggcgacggg gcctctggcc ggctcagcaa cgccaccggg gtttcttaca 240  
tcgccgcctc ctacgttaaa ttcgtggagt ccggtgggtag tagagt 286

<210> 4452  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559523H1

<400> 4452

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gttggaagt ggaaatgcag gagagccagc aaaactgac aggcagagat accgtgaagc 180  
tgcagacatg atcaagaagg gaaagatgtg cgctctcttc atcaacgac ttgatgcagg 240  
agctggctgt cttggtggaa ccacacaata cactgtgaac aacc 284

<210> 4453  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559524H1

<400> 4453

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tttgtggcct ggttccttca atatggaaac tgagttgact attagaggaa agagtttttg 180  
tggcattttt ggctcctctg ctaagcctag atcactcagg gttcagtctt ctgatgaaga 240  
tggtgaggat cttgtcccct ctaatatctc gggcaaacct tctgg 285

<210> 4454  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559531H1

<400> 4454

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 aantccacga ngatttggtc cgnaacgtat ccaacgcctn anatggccgn acgnncgcac 180  
 gacgtcnccg cgctctcnct tcgaggttaag tcggcgtgtc tcaanttcgn cgactcagct 240  
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<210> 4455  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559532H1  
 <400> 4455

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 ccgttgagaa gcttggnctc tctgcagagg ggtatgggga ccctacgttg atgaggtttt 180  
 tgatagctcg atcgatggan gtggataaan cagcnngat gtnnctncag tggangaagt 240  
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<210> 4456  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559533H1  
 <400> 4456

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 gaatcgaaa cactttactc tctcctcaga gcagagcagc gtccactcca tgagatcctc 180  
 tcncgttcaa ctccgcaatc ccttcctctc gccatttcn tctctcttcc tatctcctca 240  
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<210> 4457  
 <211> 281



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<210> 4460  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559539H1  
 <400> 4460

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 cactatatta tttntattgg tgaattgcta nactatattc taaggacaat taaacataga 120  
 ctatatgggg ttgatggatg tggaccaaac tcaattgttg tctaagatgg tcatcggaga 180  
 tgnacatggt gaagcatcac catactttga tggatggaag gctnatgatg aaaaccctt 240  
 tcatcccaaa ganaatccta acggggttat cnaaatgggt 280

<210> 4461  
 <211> 281  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559540H1  
 <400> 4461

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 ggctggaaga gcaccgcacg tcgctggtg tccggtgcgc ccccgccggg cccttgaaaa 180  
 tccggaggac cgagtgcctc ccangcccgg tcgtactcat aaccgcatca ggtctccaag 240  
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<210> 4462  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559542H1  
 <400> 4462

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tttgaacatg tttcaaattg gatataatgt tgttcattct ggcaatattt ctgccaagag 120  
aagcaatcat gtcagtaaatt ttcaaaccct tctttctcac tgat 164

<210> 4463  
<211> 153  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559543H1

<400> 4463

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tataattttg agttacagtg tccacttaaa ttg 153

<210> 4464  
<211> 283  
<212> nucleic acid  
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<223> Clone ID: 700559544H1

<400> 4464

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gttccaatgt ggccagaggg tgtcccagaa agtgcacag ttcaggcaat attggattgg 120  
cagaggagaa caatggatat gatgtacaag gatgttggtc aggcgctccg ggccaagggg 180  
atagtggaaa atcctcgtaa ctatttgaca ttcttctgcc ttggtaatag ggaggtgaag 240  
aaacaaggag agtacgagcc tccagaaaga ccagatcctg ata 283

<210> 4465  
<211> 284  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559545H1

<400> 4465

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gttaccgaag agnaaggatg aagaggaac gcgancagct tgggtccatc gcagggacct 120

caagctgcgg ttattcaagc ggaaaatcga atctttggga ggaagaagga ggcattggacg 180  
agcttcttgc ggtggtgggt tacaaggtta ggtcatcgga catggcggaa gtggcgaga 240  
agcttgagcg tctcgaagaa accatgggaa atgtccaaga tgac 284

<210> 4466  
<211> 271  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559546H1  
  
<400> 4466

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canacagcaa cagttcctgg tccaacgac gangccatct atggcggtga caccacgtg 120  
agatggcaaa atcacctccc tccaaagcac atacttcctt ggncccccta cgatccccac 180  
cgcgatgacc aactccacac gtggcattcc cacagtggtc cacctccacg gtgggatcca 240  
cgcgccagag agcgacggaa acgccancgc a 271

<210> 4467  
<211> 289  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559547H1  
  
<400> 4467

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tgcttatect agcagcagat tttgggttct gacccaatta ttcattttcc ccaactgggt 180  
cttgtggatt ttttgttggg gttttaaatt tctgtgtgct gggtttgaaa gttatttctt 240  
ttcttccccg tctggattca actcccaagt nttnnnngcna attggggta 289

<210> 4468  
<211> 290  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559548H1

<400> 4468  
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 cacaacaacg attccgggtc actacgtgat ttattgggaa ttgttgacca aggactcgac 180  
 gaactcacc cagtcacgagg tgttgaatcg gtgttggttg gagatggagg agtgcttgaa 240  
 ctcggtgtat agacaatgtc gtgttgctga tcattccatt ggcccattgg 290

<210> 4469  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559550H1

<400> 4469  
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 ttgagttttt tttttcttct cttttttttt tncnccaaaa tcctnatttc ccccgaaantn 180  
 nanacnagen aagatcnctt gnggggnatt tganatttct ttttttttctn aagtnnttgn 240  
 aagngnggan ncnagttngn gagatataaa nagg 274

<210> 4470  
 <211> 267  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559551H1

<400> 4470  
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 ttgaaatgcg acatttttctg aaagatcgct catttttggg aaacctgaat ctaggagaag 180  
 gtgctaaaagg agtatacatt tcaatcgatg tggattgtct tgatccaggg tatgctgtag 240  
 gagtgtccca ctatgaatca ggaggtc 267

<210> 4471  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559552H1  
  
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 ntattttcat cctgtact cttcttctct cctctaaact ctctnttcca ttcttgcttc 120  
 cnttggtgggt tgtntgagtn nnttttccct caatttaatt ganagatggc ttgcntggta 180  
 tctcgctcgg gaagggaatt gcagaggtac aacaacatgg gtggccggca agttgttggg 240  
 tgagtccggg cgctattgtg tcttattgag tctgcga 277

<210> 4472  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559553H1  
  
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 taacaggaga taataaaacc acttgtagac cagcaaatac aggaagtgtt ttggacctta 120  
 atctcccatc ttttgctcta tccacaactc gctcaaagta tattagtgcc acttttagta 180  
 gaactgttac taatgttggg tcagctaaat ccatatataa agccacagta actacacctc 240  
 catcatcttc ttccttaaac atcaaagtag tgccaga 277

<210> 4473  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559556H1  
  
 <400> 4473  
  
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 gaggantng agaatagntg tggctggggg tgctaagttc aatttgagaa gaggcaatgg 120  
 ttctnctcat aatgttgtca atggnatatag cngtgatgga gatcttntca gaattagcaa 180

aagtgngtgt ttttcggcgg tggtgaggt ggatagagac cttcttgcg ttnatncac 240  
cactttcaac attctggctc cgatttaca ancngatng 279

<210> 4474  
<211> 287  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559559H1  
  
<400> 4474

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ttatgatttg angggntaca aaatcagtgt tgcaatggca ganaaatctg caccaagagc 120  
tccacctgca tataaccaag ggggcaatag ggggtggctat ggtggagata gacgcagaga 180  
cnattatagn gntggangtg gntctnggcc tnataggcgt gatcattatg gaaatcgctc 240  
tcgtccatac tganagcttn gacctgaac gtnttatgta ctatgaa 287

<210> 4475  
<211> 100  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559561H1  
  
<400> 4475

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ttntttaatc aatgtantga attggnnttg tntttncna 100

<210> 4476  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559563H1  
  
<400> 4476

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tctggccgtn gcttcttctg ccgagaagaa gctggagaga cttcaggaag aggaactagt 120  
ggagaaacct tttgaacgga aacaaatgaa aatcaggctt cctgagcgtg gaaggagtgg 180

aagatctgtt gtagcaatta ataacttga atttggcttt gaggataaga cacttttcaa 240  
 aaaggcaaat cttacaattg aaaggggaga aaaaattgcc a 281

<210> 4477  
 <211> 282  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559564H1  
 <400> 4477

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 aatggttacg ttcaggtttc accagtacca ggtggctcggg agggctctcc caacggaagc 120  
 agatcagcat ccgaagatct accgaatgaa gctctgggcc accaacgagg ttgcgcgcaa 180  
 gtctaagtgc tgggtatctt tgaggaagct gaagaaggcg aagaagagca atgggtcaagt 240  
 tcttgctatc aacgagattt ttgagaagaa cccaaccaag at 282

<210> 4478  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559565H1  
 <400> 4478

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 acgttttatt atgttgagct tctcgggttt agtggtggcg gcgcgccggt tcgggggatt 180  
 tcggcttcac tttttcgggt cgactccacc gggaacgggg gtgttataat tgactcaggg 240  
 acttccgtca cgccctcac gcgccctggt tatgtgg 277

<210> 4479  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559566H1  
 <400> 4479

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atgttgaatt taaaccagat ttcaaggtga cttcccttga tgaagttcac tcagttctga 180  
aggaaaattt tgatttgtca ccatgatgtc aaggattgtt aacgtgaacc attattttgt 240  
ggtttatgct tgagatatgg aggaggcata tatg 274

<210> 4480  
<211> 271  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559567H1  
<400> 4480

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aanannactn gnttntcaan tctacattgg nctgcncnccn ccatgcctca agcttgattc 120  
tttcaattct caatcttntc ctgtcttcga ccccaatctt cgcctatccc tctntcctcn 180  
nagaccctca cgcgccatcg tcgccatggc aggcaccggc aagttctttg ttggggcaat 240  
ggaagtgnaa ggaacaaaag actccatcag t 271

<210> 4481  
<211> 275  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559568H1  
<400> 4481

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tcatttccac cgttcatgga tccngtaagc gtgtggggta acacgccctt ggcgacgggtg 120  
gatcccgaga tccatgacct catcgagaag gagaagcgcc gtcaatgccg cggaatcgag 180  
ctcatgcct cgcgagaactt cacctccttc gccgtcatcg aggcctcgg cagcgctctc 240  
acgaacaaat actccgangg catgncgggc aaccg 275

<210> 4482  
<211> 271

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559569H1  
 <400> 4482  
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 atggccttgc ccttacagca gccacttcta gctgccaaagt tcacattgna gcttatcttc 120  
 tgccacacgt acctcagcag gtccttgcag ctcttagtgt tgaaattctt aaggctgctg 180  
 gtgagcgcag gatggatctc ttgatgggtg agcatttctt ctccaatctg anttcttang 240  
 tgatcctgca gctacttatg ctgttgca t 271

<210> 4483  
 <211> 243  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559570H1  
 <400> 4483  
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 actctggata attatcatac ccccttctag gcatagttct tctccctctg ttctctattc 120  
 tacactgtga aaccaagatg aaggtagcat ttgtagctgt tctacttatt tgccttgctc 180  
 taagctcctc cttgttcgag gtgtcaatgg ccggttctgc tttctgctcc tccaagtgcg 240  
 cga 243

<210> 4484  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559571H1  
 <400> 4484  
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 acctccagag tctcagtcga tcaactgttg tggtcacata gagggaatg tgatggaaaa 180  
 tgggaagttt gaaattggag aagatgaagc agatgatgag aacgtaccgg ctagtccggt 240



aagcgactgg gaagatagtg acgctgagag a 271

<210> 4485

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559572H1

<400> 4485

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aggtgccttg tgttgctggt gtggagaata tgtgtcattt tgatgctgat ggaaaacgat 120

attaccatt tggcagaggt tcaggttctc aggttgttca gcagtttgga atacctcatc 180

tatttgatct ccttattaga ccaactctct ctgcttctgg agacagtgga atgcctgaag 240

tggtagctga tcctcaaggt gaagtttcca aga 273

<210> 4486

<211> 276

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559574H1

<400> 4486

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gttgaatcgn accacaacag ggtagcgagt gttgggggtca ngatcaacag caaccactga 120

nccgngcct ttgtaccagt aagattcctt cctaagaatc ttcggccttc ataaaaccaa 180

gcgcacgctt ccgccactca ctctacccc tcctatcccc cactttcaag ccatattctt 240

cttcagcttc ggccttagtt cccgaacttg atattc 276

<210> 4487

<211> 266

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559575H1

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ccaatgcact caaagtctct tctacctcca gacctcatct cttgcatcct ttttctttct 120  
 ccagatgctt gtcttccgct ttggatggac ttaagtatgc agattcacac gaatgggtca 180  
 agcacgaagg ctcagtcgcc accattggta tcaactgacca tgcccaggac catcttggag 240  
 aggttgtgta tgtggagctg ccagaa 266

<210> 4488  
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 <212> nucleic acid  
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 <223> Clone ID: 700559576H1  
 <400> 4488

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 nttntttctt ttgtttctct agtttttctt ttctcaaagg actgatttga aacaatcttt 180  
 atccttatgt nccatttgat acacagaatc gattcatgtt tggggatgat gatattccca 240  
 ggaatataaa atgtattcag ttatgttcag aaaaa 275

<210> 4489  
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 <212> nucleic acid  
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 <223> Clone ID: 700559577H1  
 <400> 4489

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 ctaaagctgg acctccaaaa tttgaacttc aaatgggccg caaatgggtt gttgagaatc 180  
 aaattgagaa gaaagacttg gtcattgaag attgtgattc aaagcagtct gtatatattt 240  
 atggatgcaa aaactctgtt ttgcaaattc taggcaa 277

<210> 4490  
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<223> Clone ID: 700559578H1

<400> 4490

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gctccgttac cgttccactc cgcgactcac atgtaaggca gcccaagttt cggtcgccga 180  
agagtcgtcg gcgtccggcg acaactgggt tccggtgggt cctctgtctg ctctgccgaa 240  
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<210> 4491

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559579H1

<400> 4491

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tggtggaagg gacaaacct tcgcaacct tctgcatcag ttgtgagatg caaccccacc 180  
accccatcag gcctcaccat cagagctgggt tcctatgctg atgagctcgt taagaccgag 240  
aaaacagtgg cttcaccagg gaggggtatt ttggccatgg 280

<210> 4492

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559580H1

<400> 4492

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atcaggggct cganctcgag ccgattcggc tcgaggcctt acaaaacaag tttttgtata 180  
aagcagcctg aaagagtttc cctttttcct tgcagatcat ttcagcaata actggaggga 240  
ttactgatct ctcttttaat gcagttgggt atgcttggca gacag 285



acttgccgca atgactctga tntctgntgt ccttggacga acctttcatt atgttgatga 180  
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cctattggtg tactttgggg tctctaccct 270

<210> 4496  
<211> 271  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559586H1  
  
<400> 4496

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gaatgatgca gtttctttac aaggagtaca tatgaaagg gatggaatta atggaggaga 180  
cttgcaatat ttggttaaag atgcatttca naatgagctt gatagaccta tggatcactc 240  
cttctttgga tcaccctta gcatgtcatt a 271

<210> 4497  
<211> 272  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559587H1  
  
<400> 4497

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aagaaggatt acgacgaggt tgacatggct aacattcaga agaaaaagga agaggagaag 180  
gcgctaaagg agttgaaagc caaggcgcaa cagaaggga gctttggagg ttctgggctc 240  
aagaaaagt gaaaganata agggctcttt at 272

<210> 4498  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559588H1

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 tctttcctaaa cctcttcttg tttcttcccc ctatgctgta tctacacccc ttggcatat 180  
 ccaagttcca ccgttcgaa aacctctctt ctctacttcc tcttccccct cccttaccgt 240  
 ttctcaagat agtgaagaat tggaagaaaa aga 273

<210> 4499  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559590H1

<400> 4499  
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 cacanagcaa cactttccat gtccatgtct ctgnetcttc ttcttatctt ctcttcgccc 120  
 cacctncca cctctctctt ctttncaact ccaactcttt cttccctctg cccttctttc 180  
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<210> 4500  
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 <212> nucleic acid  
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 gcntgcagaa gaagtggtag aacgttttgg gaaatcatga ctanaggggn aatgccnagg 180  
 cncaaatnag ccattgtcctt agatacagag ncaatagatg ggngtgcttc agatcatata 240  
 ccctcaattc agaaaatgta gacttctttt ntgt 274



caccaagttc ttttcttcca aaagcccctc atattcaggt ctttccaatt gtttctcaaa 240  
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<210> 4504  
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 <212> nucleic acid  
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<223> Clone ID: 700559596H1

<400> 4504

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 agcagatcag catccgaaga atctaccga ntgaagctct gggccaccaa cgaggttcgc 180  
 gccaaagtcta agttctggta ttttttgagg aagctgaaga aggtgaagaa gagcaatggg 240  
 caattttcttg ctatcaccga gnttttgaaa gaaccaccca agttt 285

<210> 4505  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559601H1

<400> 4505

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 ccacanggtc cccangatgg ncattgcaag acnattggca cggcgtggng tgatngtttc 120  
 canattcacc accccaaaaa angcatcacg anncaattct gtnctnncnc gtgatgtttc 180  
 atcaggcctc ccaatccggc tagtacaatc cattttccat ccaaagaagc aggactacct 240  
 gaaggtgtga gaatttggac atggnagcct caancgattt gtacaaaana ttccac 296

<210> 4506  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559603H1

<400> 4506



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aaggnggaag ccaccaagtt ggggacggtc attgggattg atcttggaac gacctattca 180  
tgtgttngtg tttacaagaa cggccatggt gaaatcatag ccaatgacca aggtaacgta 240  
tcaccccttc ttgggttgct ttcaccgaca gtgagagact cttggggagc tgccaa 296

<210> 4507  
<211> 299  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559604H1  
<400> 4507

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atccccagaa aatggnantn cggccggcga gtcctccgtc ccgctcccnc cggcgaacct 120  
ttgaagccca aacaggncce taactccnnn nnnnnnnnnn nnnnnnnnnn atcgtacctc 180  
accaacgccc tggttcttcgg gctgttcttc tcggtggcgt acttcctcct ccaccgatgg 240  
cgcgagaaga tccgcaactn cactcccttc acgtcgtcac gctctccgag atggccgnc 299

<210> 4508  
<211> 298  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559605H1  
<400> 4508

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tcaganngtg tgaagatggg ggcgggtggc cgaactgatg ttccgnctgc caacangaag 120  
tcagaggttg acccnttgaa gggggtgcca ntngaaaaac ctccatntag tctcagccaa 180  
atcaagaagg tcannccacc tcaactgntc cagcgttctg ttttccgctc atnctccnat 240  
gtngtttacg acctcaccat agcctctgct ctctatnatg ttgccacnat tacnncca 298

<210> 4509  
<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559606H1

<400> 4509

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atattgatat tggaagcaaa gacacaggtn tcacaaatgg agcagtggta aaatggccct 180  
tcatgaaçaa agtatatgtc catcctctnt tgatgtcatt caatcctcct caggtgaatt 240  
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<210> 4510

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559607H1

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ttttctcnnn nctcaacaaa ttctatnnct actccaattc tctgcgctgc tctgcctccg 180  
tggaagacac cgaatgggat tgggaagatg gcaaaaccat ttccacgtgg tcgatgaanc 240  
agagcttctc ctcganattc tcaagtctcg cttaggtgat gctctgcgtt tggaggatt 299

<210> 4511

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559608H1

<400> 4511

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gccgagttcc gggcagaaga atggatcagg aggttgtttt cttagtggaa ggaaattgag 120  
ggtgaaaaag gagagagcag caattggagg acgatcgatg ggactacag tgtgcgcagt 180  
tgctgagcct gacagacctc natggttccc aggcagcacc cncctccat ggcttgatgg 240

cactctacct ggagacttcg gctttgaccc tcttggctnt ggatctgacc cgga 294

<210> 4512  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559609H1

<400> 4512

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tttaatttca tagactgggt aatgaattta atcaattnat naatctggat tttnatgttt 180  
tntcaaatgg attgagtata caatctgttg aatataaacg gtgctgttga tttggaagtc 240  
aatgggtgtg gttttatttt actggattgg atcacttgng atctgtgagg 290

<210> 4513  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559610H1

<400> 4513

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gngcagcgcc cccgcactgg ccattaaggc gagcgtggag aagacgaaga ggagggttcga 120  
caactacgag aacagggggt gctgtgcggc ggcgatgggt tgccgcacct gatcgtgagc 180  
ggagaccaga ggcactgggg tgagttcatc acaccggaa tactattcct gtacatctcg 240  
ggatggatcg gctgggtggg tcggagctac ctgattgcga tcagggacga ga 292

<210> 4514  
<211> 290  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559611H1

<400> 4514

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<223> Clone ID: 700559615H1

<400> 4517

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atgagaatag cnaaagttgc catcatgtaa tttctacggt gaaaganaac atgtatctnc 180  
tactaatcct ctttcctgac agtgctaagc cacagtgcct ttttaacttta gaaagatcag 240  
atttatataa ntcattctga agaagtcctt gaagctcaaa a 281

<210> 4518

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559616H1

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aaacaaagtt tcaagcagtc ctattgtgac taatagaaca gctctttgta gatcaggtga 120  
aaaacactat ttttcctcgt caacaagggt caatagaata cagttgtcaa gacatagact 180  
ggaacatgga catctgaact atagatgtct ccacagagag agatcaacct tattcaatga 240  
ctgggttttgg ttcataacgg aaaacctggt ggtntntctc caagaagaaa tcttcta 297

<210> 4519

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559617H1

<400> 4519

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ttttaatttc nttagactgg taatgaantn aatcaattta ttnatctgga ttttnatgtn 180  
ttgtcaaag gnttngntan acaanctgtn gaatataaac ggtgctgttg attttggag 240  
nccatgggtg tggtttgatt tacgnggatg gatcactggg natcctgaag aaccc 295

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<210> 4520  
<211> 296  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559619H1

<400> 4520

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accagggtccg tgtggaaatt gaatcactnt ttgatgggtgt ngatttttctn ganccactca 120  
cccgagctcg gtttgaggag ttgaacaatg acttgntccg gaagaccang ggtccagtga 180  
agaaggctat ggaagatgct ngattncaga agagtcagan tgatgagatt gntcttgttg 240  
gtggaagcac aaggattcca aaggnacaac aacntttgaa ggactacttt gatgga 296

<210> 4521  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559620H1

<400> 4521

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ctgtggccgt tcttggcagc agtgaggggtg tcaactggaac tattcacttc gttcaggagg 120  
gaagtgggtcc aaccaccgta actggatctc ttgctgggtct taagcctggt ctccatgggtt 180  
tccatgtcca tgccttgggg gacactacca atggttgccct ctcaactgga tcacatttca 240  
atcctaataa caaggagcat ggtgcccttg aggatgagaa tcgtcatgct ggtg 294

<210> 4522  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559621H1

<400> 4522

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aatagtgaag gngtaaaaac taaaaganna gcgccncctt caaaaaagag gaaaattgcc 120

ncattacccc cncaacctaa agttatgcc a ctacaaaga aggttatgtc ggatcaagag 180  
aagcatgatc taggtcgaga nttggagtct cttctgggag aaatgcctat gcatatcatt 240  
gattncttaa aagaacatag ttcaaattgg agagaatgtg gagatgacga gatg 294

<210> 4523  
<211> 90  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559622H1  
<400> 4523

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actnngaanag tgtgccata tgancctng 90

<210> 4524  
<211> 292  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559623H1  
<400> 4524

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aagcttgaaa aggtgggaga agggacatat ggggaaggtgt acagagcaag agagaaggcc 120  
acggggaaga tcgtggctct gaagaagact cgtctccacg aggacgaaga aggtgtccct 180  
cccaccactc tccgtgaggt ttccattctg cgaatgctac tctcgcgatc cccatgtcgt 240  
taggttaatg gatgtcaaac aaggtcagaa caaggaaggg aagacatgct ct 292

<210> 4525  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559624H1  
<400> 4525

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tttgactgaa gaccttccat caatccttca taatttgcen agtggttggtg ttagacactc 120

attacaagat ttggttttgt catttaatca aatcaactggc tctttacctg acctttcagn 180  
 attctcatct ctaaaaatat tggttctcga tatgaatcaa ttaagtggaa acanacctga 240  
 aggnntccgc ttaccaattc atttgggaatc tctgtcaatc c 281

<210> 4526  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559625H1  
 <400> 4526

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 atctcgttgg cgccagaaac atanccaaat tctgttcttc agacgccaca attncgtttt 180  
 catntggcgg gagcgactca atgggtctta ctttgcgacc cgctccgatn cgtgctccta 240  
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<210> 4527  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559626H1  
 <400> 4527

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 caaggtagcc agctgggcta catcctttaa attcaacatt ttgcaccca acaaatcaaa 180  
 ctgagctgac gggcttgctt tcttcttggc acccgtcggg tctcagcccc aatccgacga 240  
 tggatnnctt ggtcttttca acagtccctt aaaggacaag tctctccaaa c 291

<210> 4528  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559627H1



<400> 4528  
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 anatctatgg taccgtaaat ccagaacctg attcantttt gttagaggct gagaagtgga 120  
 agaaaatgat ggaaanatca tctagagggg atttgaaaga gangctttat atgtgtgcaa 180  
 aagcaatggc tgtgaatgat atggagacaa ctgattggct ggtgtctgag ttgcgtaaga 240  
 tgggtgccat ttcgggcaat ccgattcagc gactgggagc atacatatt 289

<210> 4529  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559628H1

<400> 4529  
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 gattttncat ctccntgtat ctcccacat tgtcaaactc ctctctctcc cccaccctcc 180  
 atccaatggt acttnggacc caaaacaagc aatggcccta gaatcccnca acatccccac 240  
 ctcaaaggac ccttgcgccc aaccctcctt ccacaatgcn accctctgc 289

<210> 4530  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559629H1

<400> 4530  
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 agggaaaagg tccatcagat attgtggtca ttggccatgt cgactctggg aaanccacta 120  
 ccaactggtca cctgatttac aagcntggag gcattgacaa gcgtgttatt gagaggtttg 180  
 agaaggaagc tgctgagatg aacaagaggc ctttcaagta tgcttgggtg ctggacaaac 240  
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<210> 4531  
 <211> 280  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559630H1  
  
 <400> 4531  
  
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 atggaaatgc ctgaggagga agagtttgnc agtccgatcc tgaagggtng ggaggagaag 180  
 gagattggga aaatggggct gaagaagaaa ttgctcaagg aaggtgaagg ttgggacacc 240  
 cctgacagtg gagaccaatt gaagtgcatt atactgganc 280

<210> 4532  
 <211> 245  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559631H1  
  
 <400> 4532  
  
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 cagctcantt gtgcccgttg tggatgatgc taagaggacg gaggaattga nggaaattag 180  
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 gcttc 245

<210> 4533  
 <211> 298  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559632H1  
  
 <400> 4533  
  
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 agcgcaacgg ctacctcaag ggcgtcgta ccgacatcat ccacgacccc ggtcgcgcg 180

cccctctcgc caaggtggca ttccgccacc ccttcgccta caagaagcaa acggagctct 240  
tcgtcgccgc cgagggcctc tacaccgggc agttcgtcta ctgcggcaag aaggccac 298

<210> 4534  
<211> 295  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559633H1  
  
<400> 4534

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ttgatacctc tgattcttct ttgcttagaa ttccacagan tatggagang cnttcttttc 120  
aatcactccc cacctttgga attcaagggt ttgagcaagg aggaggaaga ctcatctgcta 180  
gggcaagtgg aaatatggag gtacatgaca tgcttcacgg actccgtggc cttgaaagct 240  
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<210> 4535  
<211> 294  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559634H1  
  
<400> 4535

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cggaaccttc ccttcaacat caccagcgag gagatgtacg acatcttttg caaatacggc 180  
gccattcgcc agatccgcat cggcaccaac aaggacactc gcggaaccgc tttcgtcgtc 240  
tacgaggaca tctacgacgc caaaaccgcc gtcgaccacc tctccggctt caac 294

<210> 4536  
<211> 293  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559635H1  
  
<400> 4536

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gcgtgaaaca agcctcncac cntctcaagn acgattcgat cctcggaacc ttcgatgctg 180  
atgtcaagcc tgttggcagc gacatcatct ctgtcgatgg aaaggaaatc aaagttgtct 240  
ctgaccgcna ccctgccaac cttccttgga aggatttggg gatagacttg gtg 293

<210> 4537

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559636H1

<400> 4537

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gtgaaaatgg ttgtgctcct ttgactngga aacaaagggg agcaatagcn ttggatgtag 180  
ctcggggagt ggaataacttg cacagcttgg ctcagcaaag cttcattcac agggacttaa 240  
agccctcgaa catattgctg ggtgatgaca tgagagccaa ggttgcagat t 291

<210> 4538

<211> 192

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559637H1

<400> 4538

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angcaatttc tgncccana nataatgccc gggagaagga gaaggaagtt gaaatcgttg 120  
agtatacaa ttaccgacag cagacgggca tcagtggagg tggaaaatga atatthagag 180  
ctgcaaacnt gg 192

<210> 4539

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559638H1

<400> 4539

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acatttgcag caaaagtcta cttcagtcca tttccaaggc tttggttttg gacctgttgg 120  
agctaaaaag gncacatgct ccctncaagc tgatcttaag gacnttgntn anaaaggngg 180  
ttgatgtacc caaantgnnn ggattcngcc ctnggcaacn ntgnccncng ttgtncnngg 240  
gggcaaatgc nnaaggngtn cccaaaaggn taaccctttc gacgaantcc aaac 294

<210> 4540

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559639H1

<400> 4540

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cntcaactct ncctctgnca agtgntcncn cgaccacatn cccaaacagt tnaganagga 180  
naatctcaaa gatggattga tggannacta cnagaatgca cctcnatctc natanggcct 240  
ttntccttca naaatggaca tgntcatgac agnngatcat cctatncg 288

<210> 4541

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559641H1

<400> 4541

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agggaaacaca tgatcatcct aaacctcaat caagctgccg atactctact ggtactgtta 120  
tgtatattca aggagagaga tctgataagg cttcttttggc tggccgagat gacaaagcat 180  
ccactatgta tggtcagggtg tctcatgctg ctgagcccaa cagtactcca gagtcatcac 240  
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Sequence 1648

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tcagtcataa tccaacgcac ggtagcttcg cgccactggc ttttacaacc aagcgcgatg 240  
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<223> Clone ID: 700559646H1  
  
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actcgcgggc agtgtggtgg tggaggctca ggagaactcg gacgtgaaga cgctggtgaa 180  
gcacatgcac gggaagaagt actgcgacaa aggatgggaa tgtaagggtt ggtcaattta 240  
ctgttgtaac ctcatattac tgattatttc cagacctacc agttcg 286

<210> 4547  
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<223> Clone ID: 700559647H1

<400> 4547

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ttctgtnatc aagaaaattt agccttgctt ggagatgagg ttaccagac aaatatatat 180

caggatgaac gacccttcat tagttctaga aaggttttga tggacttggg gccacctata 240

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<210> 4548

<211> 65

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559648H1

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<210> 4549

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559649H1

<400> 4549

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tccctctcta tcaacgaagc aagtgcgaaa tgagcaggag gagttttgcg tttaaggga 180

ttgtggcctc tggcgttncg ntcgcggtt ctactctcac agccgaagca gaaccatctt 240

ccaaaggtn tgaagattg ccgtacaanc cggaagggtta caatattggn c 291

<210> 4550

<211> 290

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559650H1



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 gnaacattgt tcnaaagn gn taccaccatn gaggcnga an aggcggcncc aagtagtnca 240  
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 gcctacgtca acgtccgcaa ngggaaaatc atccccggct acgagatcag cctcacactc 240  
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 gacgaacacn ggaaggggtt gaaggaaggt agganntnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnagatcaa ccttcgggtg acgagaaata cacgcataga 240  
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<210> 4553  
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 atgttttagag gtagtgaaaa cactgccaca gttgcaacag aaagagccac aatcaagagg 180  
 tggcagatgtt ggtgataatg gtggtcgtgg tgggaactac aggtttggtg gaagagggtg 240  
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<210> 4554  
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 nctcaagctg tggatttggc tgggggacac tcagctaattg gtgctgtggc ccaaggttcc 180  
 cattctgaag gggatataaa caacactact atatttgttg gagggcttga ttctgatacc 240  
 agtcatgagg atctcagaca accattttng caatntggtg aggttgt 287

<210> 4555  
 <211> 184  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559655H1  
  
 <400> 4555  
  
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 taatcactat cacacacaat tgggtgtcatc tcaatttatg tgtcaccatc ctacttgtaa 120  
 gtatatgggc tttgtatact tgnaagtaat atggactttg tatagcatac actggattgc 180

184

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<210> 4557

<223> Clone ID: 700559658H1

<400> 4557

<210> 4558

<223> Clone ID: 700559659H1

<400> 4558

1652

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 actgtggagt aaaatcaatt aacttttcac gttgaaagtg aagcaactca tcatggggatt 240  
 tctacgttct tttatgtagt ttaggtagcc aatgtgcac caa 283

<210> 4559  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559660H1

<400> 4559

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 gagatcagac atgtcgagct gcagcatcga tgttgccgct gagcaactct gctacatccc 180  
 ctgcaacttt tgcaatattg ttcttgcggt gagtgttcca tgcagtagcc tgtttgacat 240  
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<210> 4560  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559661H1

<400> 4560

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 ggaaatccag acgagatcgc gaantgtttc cgcatttggt cggacaacct tccgcccgc 240  
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<210> 4561  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559664H1

<400> 4561

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ttcaaaggct gtgaagaatg gtgatactat ttttattggc caatacctgt ttactggaag 180  
tgaaacaacc tcagtgtggc tagaggctag cgaagtgaat ggtgatgatg tcacttgtgt 240  
cataaaaaat tctgctacnc ttgctgggtc actgtatact ttacatgtct c 291

<210> 4562

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559667H1

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ctccncttcn cgctcncgaa ccgncgatec nccgaccga gncccgctct catcgaccgc 180  
ganccggaga tcttcnccgn cctcctcnnc ntctcncga gctnnacact tcnnngccgc 240  
nacgcgangt ttctgnaagg aacgagctcg nctcccncc ngcggcgctc g 291

<210> 4563

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559668H1

<400> 4563

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tcgagtgatc ttgccaacag ctacaaggaa acatggacga tacattggca cctgtgttaa 180  
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tatatctaca atagatgact gaactatccg gaaaagacag acac 284

<210> 4564  
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 <223> Clone ID: 700559669H1  
  
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 ctcaactttcc gggaaaaaaa cagaactcca atcacacctc acaagcnccc tttttcagca 180  
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<210> 4565  
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 ggatgcaaga gttgntgtaa atcccttaat attcattttc gatttccacg aataanat 180  
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ttgcttttga ggatggaaca agtacttctt atgcaatctc tagttcacag gagaggggac 180  
 agatgtttat tggctcctgga gtggatgttt ataaagggtca aattgttggc atccatcagc 240  
 gacctgggga cttgtccttg aatgtntgca agaagaaagc t 281

<210> 4567  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559673H1  
 <400> 4567

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 acgttttatt atgttgagct tctcgggttt agtggtggcg gcgcgccggt tcgggggatt 180  
 tcggcttcac tttttcggct cgactccacc gggaacgggg gtgttataat tgactcaggg 240  
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<210> 4568  
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 <213> Glycine max  
 <223> Clone ID: 700559675H1  
 <400> 4568

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 ttgtngcatt nntcaacatg tcntnagctc actgctgaac cctgnnctn tctttctttg 180  
 ccccc 185

<210> 4569  
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 <213> Glycine max  
 <223> Clone ID: 700559676H1  
 <400> 4569

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gtttgcggtg gcgtccatcg ccgccggcat acagttcggg tgggctctgc agctgtctct 180  
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<210> 4570

<211> 279

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559677H1

<400> 4570

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gangcaggaa caggatcaca aactggacga acacgggtgg atgggaaaga gttttttcgc 180  
caagtnagga accgtttgtc ttatgagcaa tttggtgcat tcttggcaaa tgtaaagaa 240  
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<210> 4571

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559678H1

<400> 4571

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ctgtatgcta ntnaacattg atggtcatca agtccctcaa cacattatga nggaagttgg 180  
agacactnac aagagaantc tggcagaggn aagatcggtg ctgcatatgg cntctggtgc 240  
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<210> 4572

<211> 282

<212> nucleic acid

<213> Glycine max



<223> Clone ID: 700559679H1

<400> 4572

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 cacaggcagg ttttaagaac acaagagttt agtcatgtct gggacattat tatggggtgt 180  
 ttcctccctt ggttttagagg tttccattc catgggttac ttgattctat toggagtgtg 240  
 aagttcttag attcctcaaa ggccatgtct cgagatttgg gt 282

<210> 4573

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559681H1

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 ttcagcctnc acttatccaa tgganatcaa gcaccttgtt gatcatgaaa nnaagatgga 180  
 attggagctc acaaatgagt ccacttcaca actnagtgcc actgaataag tgctggntat 240  
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<210> 4574

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559682H1

<400> 4574

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 ttgggtccgtc tccgggagaa aaattcaatg caagangcgc atcacactcg cgagaacagc 180  
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 ctggtcggca aacggacggc gggcgcacgc ntcgcttcta gcccgattc tgacttagag 180  
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 ttcacacaca aatggaactg aaactacttc taanaacggc tttaatgatg gtgtcacntn 180  
 cngcaactgc agcagctgan tacattcgac ctgcgcctcg aaaaaccttc catctcccat 240  
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<210> 4577  
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gctgctagga gactcaacca gctgggttcag gaccagtcac agttactcca ttaccacaac 180  
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<210> 4578  
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<400> 4578

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<223> Clone ID: 700559688H1  
  
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tatggtgagc gttcttcgga ggtaaaatgc gcaagtttta ggcttgctgt ggaagcacac 180  
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<223> Clone ID: 700559689H1

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 ntcagccnnc acttanccaa ngganatcaa gcaccttggt gatcangana ttaagatgga 180  
 attggagcnc acaaatgagt ccacnncaca acttagngcc actgaataag ntctggntat 240  
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 <213> Glycine max  
 <223> Clone ID: 700559694H1

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 gatagaaatc caaggaagaa gatgaagncg tttgccgtcc aaaacgtcgt cgctccatcc 180  
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<210> 4582  
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 <213> Glycine max  
 <223> Clone ID: 700559696H1

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 acaggccatg caagggtgtg gaggtttcaa cttccaaaaac tggcaagcat ggacacgcaa 180  
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 <223> Clone ID: 700559701H1  
  
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 tttttgatgg cagtgattcc gaaaatgagg acatttcaaa gatcaagata gacgagaagt 240  
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 a 301

<210> 4584  
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 <213> Glycine max  
  
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 ggggtggaat tggcagggtc ttgaagactg ctgcatatgg acactttggc agagatgacc 240  
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caagccagc tccatctgct tctagtcctg cctccttcaa gactgtggct cttttctcca 180  
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<210> 4586  
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 <223> Clone ID: 700559705H1  
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 cactggactc ttcctcctac aagctcctga acgagatcgg cgaaggcgtg agcgccgctg 180  
 tctacaaagc cctctgcctc cccatgaact ccgcccgcgt cgcaatcaaa tccatcgacc 240  
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<210> 4587  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559707H1  
 <400> 4587

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 agttgccgat caagtctgca caaattaccg catcnactga tttcactgag ctacaagaga 180  
 aggaaccctg gctttcatct tctaaattgg ttgttaaacc tgacatgtta tttggaaagc 240  
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<210> 4588  
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 <213> Glycine max  
 <223> Clone ID: 700559708H1  
 <400> 4588

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 ttacgacaa ggagcgaccc ggagttacat ggccgaagca gttgaatgct tcaattgagg 180  
 tcgttgatcc tgagattgct gatattattg agcttgagaa agctaggcaa tggaaggggc 240  
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<210> 4589  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559709H1

<400> 4589

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 gtatctcaaa gctgctgcac tctacactca agccatcaag ctagaccctt ctaaccctac 180  
 cctctatagt aatcgtgctg cagcactact gcaattggat aagcttaata aagctctaga 240  
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 ag 302

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<223> Clone ID: 700559710H1

<400> 4590

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 tgggcaacaa tgatggcatg aatctctcag cccctcaaac cttccgctct aaggaaatct 180  
 ccaagagcaa tgttgttgac gatatgggtc acagcaacgc catcctctat gagcccgggtg 240  
 aacatccaga ccatgtgggt gtcattagta cgtgcctt 278





tttggttatg gaancaactt agtcccttc ctctctcttt attttccaca ttgtacaaat 240

gctatttcag ggtacttggt ggtagtgggt gttgacaaag atattgaaag ggaattt 297

<210> 4594

<211> 89

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559714H1

<400> 4594

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ccacacaaca tacgaccnta anananngt 89

<210> 4595

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559715H1

<400> 4595

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gtcgacgctt cccctgaggt tgaagcagag caacaacttc cctccgtcga tgacgcaacc 120

cagttgaaga aatcccaacc gcaggaggat gatgctcccg ttgtcgagga cgtgagggnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna caaggaagac 240

gatgctctag gtggtgctga gggttcaaag cagagcagaa gtgagaaaag agtcgaaa 298

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<223> Clone ID: 700559716H1

<400> 4596

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gatttaggga ggacagactg gaagaatgcg cctctggagc gacaaaatac tatacttgag 180

ctgggtccaag ctcttgcaac cattggaatt gtgtccattg gaatctgggtt ttcattcacag 240  
ctttcttttat agattaanaa aataccagtc atgtacataa aacagattat cattctga 298

<210> 4597  
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<213> Glycine max  
  
<223> Clone ID: 700559717H1  
  
<400> 4597

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tagctagcta gcttccacca atttgaatca ccaatggctc gctctttctc taacgtcaag 180  
gttctctctg ctcttggtgc cgacggattc tccaacactc tcaccaggcg tgggtacgca 240  
gcagcgacac aaagcgcgac aagaggagga gtgcctocat canagcagat agtccc 296

<210> 4598  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559718H1  
  
<400> 4598

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attntaattt gggggatcta aagcttggtt ctgggtgtga cgagagccta ttatatgaga 180  
ttctctctag tctgaggtct gcatcaaccg acgtgcaag ttcattctct gtgcttccag 240  
caatttccag caaaaaatca gttagcgaac ttctttcaga agttgacnag tgactg 296

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<213> Glycine max  
  
<223> Clone ID: 700559719H1  
  
<400> 4599

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 cccctncaca ccgtcctcgc cctcgacgtc tacagcgaca agatcnaaca cctcctggat 180  
 cccgcgatt cncctctccc ttgggtggc cgcatactt ccaccgctca catcaaacac 240

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 attggtggac aaaagagcga gaaaccttgt ctgaattctc caggggagat tccttctggg 180  
 gatagtggga ccaatggatc agtgacaaac aaccaacaag tgaaccccgat acttgcagct 240  
 gctgatacat ctaattctaa agaagaagaa aagctagcca ttgaaagatt atg 293

<210> 4601  
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 <212> nucleic acid  
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 <400> 4601

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 acatgattgt ggtggatggt ggtggcggca cgggtttcac cactcttggg attgtcaagc 180  
 acgtggatgc caagaatgtc accattcttg accagtcacc ccaccagctc gccaaaggcca 240  
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<210> 4602  
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<223> Clone ID: 700559722H1

<400> 4602

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 ganaccatct ctntgttcca gggccgggta acattccgga ccagatcatc cgggccatga 180  
 acagaaacaa tgaggactnc cggtctccag caattccngc tatgacanaa atttgcttga 240  
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<210> 4603

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559723H1

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 aagggtggga gtgcaaaggt tggctgtcat attgctgcaa tgagactatc tccgactact 180  
 tccagacata ccagtttgag aacctcttcg cgaanccaat tcgccggtgg cacatgctgt 240  
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<210> 4604

<211> 237

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559724H1

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 cccctcacac cgtcctcgcc ctgcagctct acagcgacaa gatcaaacac ctctggatc 180  
 ccgccgattc cccctccct tgggctggcc gcatcacctt ccaccgctca acatcaa 237

<210> 4605  
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 atgccaccaa agcctttaga ctatgggtca ataaatgaaa acgtgaagaa gagtcaatat 180  
 gctgtcagag gtgaattata ccttcgagct tctgaacttc agaaagaggg caaaaagatt 240  
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<210> 4606  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700559727H1  
  
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 ctggctatgg tgcccgact cccgaggtga aatgcgcaag ttggaggctt gctgtggaag 180  
 cacacaacat ctttggcttt gagaccattc ctgaagagtg cgttgaagca acaaaggaat 240  
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<210> 4607  
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 <212> nucleic acid  
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 <223> Clone ID: 700559728H1  
  
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 tgaagttaag ccacagggaa taagcaaggg tttggtagct gaacagggtc ttatgaccat 180

ggttaatggt gccaatccac cagatTTTgt gctgtgcatt ggagatgata ggtccgacga 240  
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<210> 4608  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559729H1

<400> 4608

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gcttcaggaa atatgggatg aggttgggtga gagcgacgag catgcgagac aagatgcttc 180  
ttcagttaga gcaggagtgc ttggatgtgt acaanagaaa ggttgagcag gctgccaaagt 240  
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<210> 4609  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559730H1

<400> 4609

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tggcctagga ggattttgcy gcgctgctgt tatgtctctg aacaacaaga acataccttt 180  
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ggtgaagagg caagcaagtc ga 262

<210> 4610  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559731H1

<400> 4610

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 cttctctgaa ttctctggcc tccgcagctc atcaggcttc cttccctttt ctagaaaatc 180  
 ttcagaggat ttccattctg tcattgcctt ccagacctat gcagttggaa gcagtggagg 240  
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<210> 4611  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559732H1

<400> 4611

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 ggttctggag ctggagcttc agtcccagt tcagccttct ttgggaccag cttgaagaag 180  
 gttattgcct caagggctcc caacagcaag gtttccggtg gaagcttcaa gattgttgct 240  
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<210> 4612  
 <211> 289  
 <212> nucleic acid  
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<223> Clone ID: 700559733H1

<400> 4612

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 cccaccttt ggagttcaag ggtatgagca aggaggagga agactcattg ctagggcaag 180  
 ttgaaatatg gaggtacatg acatgcttca cggactccgt ggccttgaaa tccgtcatag 240  
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<210> 4613  
 <211> 293

<212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559734H1  
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 gaaattgtgg ttctgatga tactattgac tgtgtatacg gggaaaatgg tagcaatttg 240  
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<210> 4615  
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 gataatttgg ttgcggtcga gtttttggct ctgattgata aagagaaaaga naaggatgaat 180  
 gctggggagg atgtgaagga aanggggtgga ggtgggaatg ttaangangaa caatggcatt 240



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<223> Clone ID: 700559738H1

<400> 4616

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cttacctatg cttcgctcga cccgcattgt agagttcacg ccggagagac ggcggaatct 180  
caccggacga tcgtgatttc gcatcttcat ggcttccgcc taccggaacg aacctaattg 240  
gccacggcat agaagcgggtg gagctggatt catgggaaaa gtaccttctc taacccta 298

<210> 4617  
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<212> nucleic acid  
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<223> Clone ID: 700559739H1

<400> 4617

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aatgcgcaag ttggaggctt gctgtggaag cacacaacat ctttggcttt gagaccattc 180  
ctgaagagtg cgttgaagca acaaaggaat acatccatgg cgaacaatat agatcagact 240  
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<210> 4618  
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<212> nucleic acid  
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<223> Clone ID: 700559740H1

<400> 4618

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 gaanncttgn tgncaaacia ngcatanggc atatgtngac aaggctgctg attatctgcn 240  
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 gtgtatnatt tnngaagtga ctatttattc ctgttnaagg tntggaag 288

<210> 4626  
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<400> 4629  
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 agaaattact tgtcgtgatt tattcgccgt ctcaaaaagg tagagagaat atggcttctt 240  
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<210> 4631  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559757H1

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 ggacacagggg agcttggttta cttgggttag tgatgatgta ttcaaaaagc ctacatttgc 240  
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<210> 4632  
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<212> nucleic acid  
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<223> Clone ID: 700559759H1

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gcttgaatgt ggggagtggg agcaggggtgg cctcagtcac acgtgcaggg ttcacagtta 180  
gagcacaaca acaacaagtg agtgggtgagg tacaaagcag ccgtaggcag tgctttcact 240  
tggtgctgct ggtttgcca ctggctcttt tgttcaagct tgcttgctga 290

<210> 4633  
<211> 292  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559760H1

<400> 4633

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nnnnnnnnnn gtgtcctccg acctgaagge gttctccgcc gcgctggccc tctcctccat 180  
cctcctctcc gcccctctcc ccgccggcgc cgacatctcg gggctcacc catgcaagga 240  
gtcgaagcag ttgcgaagt ggagaagcag tcgataaaga atggagtcgt cg 292

<210> 4634  
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<212> nucleic acid  
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<223> Clone ID: 700559761H1

<400> 4634

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aatctggaga ttttaaggttt cgtatccgta ctgcacctca tgacgtcttc agaagagaag 180  
gcaatgactt gcacactact gtcnctanaa ctctggttca agcccttggt ggttttgaga 240

agaaccattaa acacctagat gagcatctgg tggacataac acaaaggaat 290

<210> 4635

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<213> Glycine max

<223> Clone ID: 700559762H1

<400> 4635

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gttcctcttc accatcaagc agttggtggc atcaggggaag ccagacagct ttagtggaga 120

gtttctggtc ccatcatacc gtggaagctc tttcttggac cccaagggaa gaggtgcttc 180

tacaggttat gacaatgcag ttgctttgcc tgctgggtgga agaggagatg aggaggaatt 240

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<210> 4636

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559763H1

<400> 4636

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gccttccccg ttactgtact caatttattg agatatgcat catgctatgt gccgaccatg 120

gtccttgtgt ctctgggtgct cacaatacta ttgtgacagc aagggtggtg aaggacctag 180

tttctagtct tgtatcaggt ttgcttaciaa ttggctctcg atttgggggt gccattgatg 240

atgctgctcg ctacttcaag gatgctcatg acagggcggt agtccttat 289

<210> 4637

<211> 291

<212> nucleic acid

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<223> Clone ID: 700559764H1

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 aaaggtgaca gacaagacag tagtccagtg gatgttaact ctccatcaaa taggtcttga 240  
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<210> 4638  
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 <223> Clone ID: 700559765H1  
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 tggcttcggtt ttctcctcgc acccattttct cagccactcc ttcttcctcg aaaccccgtc 180  
 ttgtctacaa gaacaacttt ttcttctctc tcaggctgag gagtctttct ctctctccct 240  
 tgaaggctgc tgcttctgag aacggcgctg ggaccgccgt ggacctccgc cgga 294

<210> 4639  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559766H1  
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 cggcgtggtg gtaggttacg cagtatgctc cagcctcctg gccatcatca ncaatacgc 240  
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<210> 4640  
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<223> Clone ID: 700559767H1

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caaagccacg agtcaagttt tccaggtctg caaagagAAC tgatgcaatt ncacgaggcc 180  
aatcnagagt taggaaacat attccctggt tttgataaat tctctatcag cggtaatgca 240  
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<210> 4641

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559768H1

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tggtgtctct taaccagaa ttgaacaaaa aactgagtgc tggaattgcc tgcgttcttg 180  
aaaccaagtt gttggtgtcca aagtcacggg tcttcttaaa attctataac acagagggct 240  
ataattgtgc attgaacggg tctatcatgg tagtcgggcc aaatga 286

<210> 4642

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559769H1

<400> 4642

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 catggtacgg cccagaccga gtcaagtact tgggccatt ctctggcgag cccccgtcct 240  
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 aacttttagat tcttcttctc aattggcatc ggcacttgat tccagcaaca aagaaatcga 180  
 agaacgacaa gctcgtgaac tcaaagccgg tcttcacccc ctcaagcaca agtttgtctt 240  
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gaaagtttca ggcgaatgcc gagggagatt ccgacgagct tgtagatcct ccgaagtgga 180  
 ggacaanatc ngtgctgtgc ctcatggcct ttccaccgat tcagatgtct ctcaagacgg 240  
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 gtggagatgc accatgaatc tcttacagag gcacatcctg gtgacaatgt gggattcaat 180  
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 cgcccttcog tcttcgcaac ccttaacact ccttctcttc ctctctcttc atcttccttc 180  
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<210> 4651  
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<223> Clone ID: 700559780H1

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ccaatctggc caagttaaag tgctacaatc tccacgatct tcacagtcag attctccggt 240  
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<210> 4652

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559782H1

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acacaaagca aaacaattag gagcattggt tgttctgatt gtgatggaaa tggtgcaaaa 180  
tcatgtactc aatgcaaagg tactggaggt aattctgtag atcacttcaa tggacaattt 240  
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<210> 4653

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559783H1

<400> 4653

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ggacaatcct gttcttgaaa gacgatggat ctttaaagcc acttgctatc gaattaagca 240  
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 aggggtgaagg ttagtctcat ttttgatggt cccatcttgg gaaggctaac tctacctttg 180  
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cggttcttctt ccaagaacgg tttccacact caagaactcc ttgacgatct ctgcagccga 180  
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 gcaagcgcct cggagtcaag atttaccgcy accangtngc caancncggc tccatcntcg 180  
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<210> 4658  
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 <213> Glycine max  
 <223> Clone ID: 700559794H1  
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 ggacaggcac tggttcggaga tggcgccgca gcgttgatca tcggatcaga ccccgaccca 180  
 gcagtggagn ggccgatatt cgagatgata tcggccgccc agacaatcct gncgcacttg 240  
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<210> 4659  
 <211> 289  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559795H1



<400> 4659

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tagctanccc acatacaatg tcgaccaa attaaggtgt tcgtgaattc acaagcgatg 120

actcattcct aaaccaagtt atccctgaaa acatcaccca attccaagt actctgtccc 180

tcgctagaga ctacgatggc aacaactcaa ccaacggaaa gttcattcct tactgggaca 240

ctgaaaaggt cactcccga gtgataaaaa aattcaagaa aaatacgaa 289

<210> 4660

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559796H1

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gtctgagtgg gtgaaggagc aaacccttcg ccaaccttct gcatcagttg tgagatgcaa 120

ccccaccacc ccatcaggcc tcaccatcag agctggttcc tatgctgatg agctcgtaa 180

gaccgcgaaa acagtggctt caccaggag gggatatttg gccatggatg agtccaatgc 240

tacctgtggg aagcgtttgg cttcattggg ctagagacat gaagct 286

<210> 4661

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559801H1

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ctcatcaggc ttccttcctt tttctagaaa atcttcagag gatttccatt ctgtcattgc 180

cttccagacc tatgcagttg gaagcagtg aggatacaag aagggtgtga cagaagcaaa 240

actgaagggt gccataaacg gggttggaag gattggaagg aattcttgag gtgctg 296

<210> 4662  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559802H1  
 <400> 4662  
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 aatttttgga gcatggcaat gccatgcgta cgatatgttc cctctccgaa tgaacactgg 120  
 ctatgggtgcc cgtactccgg aggtgaaatg cgcaagttgg aggcttgctg tggaagcaca 180  
 caacatcttt ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat 240  
 ccatggcgaa caatatagat cagactccaa aacagttaac caacaagctt acttt 295

<210> 4663  
 <211> 292  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559803H1  
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 gaaaacaaaa atgcctcgcg gtgggtggcg tagtccggtg gcggaagatc tgctcattca 120  
 gctcgaagtc atgcttcacg gccagttaac catgctccac ctccagctcc tgctcagagt 180  
 gacaatcgtg gatctctctt tgggactgta gctgaaggat tggcttttgg ttctggaagt 240  
 gctgtggcac acagggctgt ggattctgta ttcggtcctc gaactattca ac 292

<210> 4664  
 <211> 84  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559804H1  
 <400> 4664  
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 cgttctcatt ctagatnccc nnat 84

<210> 4665  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559805H1

<400> 4665

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 ttgcagcgct ttccgcgcct gtttcgcga gttttgtacc attcctctgg acaccgctaa 120  
 ggtcaggctt caactccaaa agaaggtagg ggttgatgag ggagtgggtt tacctaaata 180  
 caagggttg ctgggcacag ttaagaccat tgctagagaa gagggatat cagccctgtg 240  
 gaaaggcatt gttcctggtt tacaccgcca atgtttatat gggggcttaa gaa 293

<210> 4666  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559806H1

<400> 4666

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 gttcaatgca gtccanttgn ataagaccaa ggcgacgct acttctctaa agaagagcat 180  
 ctgcgaattc ttcttctnct tccgatgtca ccaattctca agaagaagct tcttccaagg 240  
 attcgntcaa cncgcgctc ccttctcaaa acntagatct cagaagaaag tncagt 296

<210> 4667  
 <211> 294  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559807H1

<400> 4667

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 tcttgactt cttctctcac ttccagaaa gccttcacat gttcaccttt ttatttgatg 180

atttgggtgt tccacaagat tacaggcata tggatggttt tggagttaac acatatacgc 240  
tgatcaacaa ggctgggaaa gcagtgtatg tgaaatttca ctggaagacc acta 294

<210> 4668  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559808H1

<400> 4668

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tagcaccaag ggtttggagc acatggtgat gccgcggatt gaagagtggg agagtggaga 180  
accagaaata atgcagaagc aacaactacg ttcaagtact t 221

<210> 4669  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559809H1

<400> 4669

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cagtgctaag gacaccgcca ccgatttctt gggcaaaggc ttggacgcat taggtcatgc 180  
agttgatgct ctactgcct tcgctggcca tagcatctcc ttgcagctta tcagtgtac 240  
tcagactgat ggtagtggaa aaggaaaagt tggaaacgaa gcctatttgg aaaa 294

<210> 4670  
<211> 293  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559810H1

<400> 4670

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 aacctcagcc actcgttttt ccttatcttt ttcccaccct ctactttgca cccacaatgg 180  
 cctttccctt cacccttcaa gctccagctt cagagttttt gccaaagttg agaaattcca 240  
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<210> 4671  
 <211> 296  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559811H1  
 <400> 4671

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 atcacatttt tccttacaag atggcagcat catcagcatg ccttgtaggg aatgggttat 120  
 ctacacgggg taatagaata actcttanga aggacttcaa tggaagaaga tatctctact 180  
 catcttgagg attttcatta ttgaacaaca ataaggcatc aaaagcattt tccataaagg 240  
 catctttgga gcaaaggcaa gaagaaggga gaaggggggt tctgaaactg ttgctt 296

<210> 4672  
 <211> 283  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559812H1  
 <400> 4672

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 aatccacctt gcatgtccta acatcattgg tcaagtcgaa gatcccgaga aacagatatt 180  
 ggaaaccggcg ataaaaggaa cggttaatgt gttgaaggcg gcgaaggaag caggggtgga 240  
 gcgcgtggtg gcgacttcat cgatttcgtc gattatgcca agt 283

<210> 4673  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559813H1

<400> 4673

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ctccaaggat cgcgagaact tcgtctacat cgccaaactc gccgagcagg ccgagcgta 120  
cgaagagatg gtggaatcaa tgaagaacgt tgcaaatctc gacgttgaac tgacggtgga 180  
ggagcggaat ttgctttctg ttgggtacaa gaatgtgatt ggtgctcgca gacgtcctgg 240  
aggatcctgt cttccattga gcagaaggaa gaaacaaaag ggaacgagtt g 291

<210> 4674

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559814H1

<400> 4674

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gttttctttg ttaatntcag tgctaaagtt aattgaccgt ggncantaca gtcaagaatg 120  
aanatctctc tgagacagtt gctgcagcaa cttntntang cntcctatgt agaaccctca 180  
ttggtngcng ccatttgtgg catctcggtt tcgaatggcc cttgagacga tgactgccac 240  
tcaccagttg aaaattgccg ttatgtcagt ggcatttgtc gggcggttcac tatgtt 296

<210> 4675

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559815H1

<400> 4675

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agccagccac agtactgttg cgctcctgtg gaaccatcga tgggctttta caggttccac 120  
atcggttgag ctttgtgtca gatatgccaa tagtggtatc cttattcttg tgatatacta 180  
gtttgtatga tcatatcttc tcggattgtc tagcaagttt agctcaattg gacgttgaac 240  
gaattattat aaatctatta agattatctt caatttctac gaaaaaaaaa tatt 294

<210> 4676  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559817H1  
 <400> 4676  
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 gatgatgcat tggtcaggta tgaagggtgaa tggtttcaaa acgatgtgga gggcatgggt 180  
 gtagttgaag tcgatatacc tggtatagaa cctggctcct gggccaagc ttgaagcaaa 240  
 gatgcgagct ccagggaaag ataatagcaa agggtttctt gtccccagaa gac 293

<210> 4677  
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 <212> nucleic acid  
 <213> Glycine max  
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 <400> 4677  
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 ctctcaaaag tggataaat ttgaggttg ttgatggaaa cactatcact gttgcttttg 180  
 atgaaacaac cacattagag gatgttgata atcttttcaa agtttttgct ggtggaaagc 240  
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<210> 4678  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559819H1  
 <400> 4678  
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ctcttgatc ctcacgggaa cgaggaaaag gaagagtatt tgcgcgaaga ggttccggag 180  
 tggaaggagc agataacgat aagagggttg gtggtgagtg ctgtgttggg gagcttggtc 240  
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<210> 4679  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559820H1  
 <400> 4679

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 caggcttnat gctaatttcc attnccccat tcncattgcc cacncag 107

<210> 4680  
 <211> 293  
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 <213> Glycine max  
 <223> Clone ID: 700559822H1  
 <400> 4680

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 ctctattcca accgatccgc cgcatacgcc tccctcaaaa actacgcaga tgcattagcg 180  
 gatgccaaaa agacagttga actcaagccc gactgggtcca agggttacag ccgtctcggt 240  
 gccgcgcac ttggcctttc ccaatacgat gatgctattt tggcttacia aag 293

<210> 4681  
 <211> 290  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559823H1  
 <400> 4681

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ctccgattgc ncctaggggtt cacacttcga atcgccgttt tctgtcatga attgggctcc 180  
gtagcacac ctgccgact ctgctgacg gaggagattc gaaattcggc cgccaaatgg 240  
tttcaatctt gttgtacatc gtcgctttca ttgcacgtgc gganccattg 290

<210> 4682  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559824H1  
  
<400> 4682

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ttgtaaccct ttgattccta gcttttggtta tcctttcatt ttattctctt gttggagtga 120  
tcatttatctt gcagaagggtg aggagagttg ttttttaaaa tgggtccagtt cttttcttat 180  
actttgataa gtttttaact ggttcattct gagtatgagt tagctggatt atatcaaact 240  
acgcttgtag ccttggtatg cataattata atcctcatcc gttgaactac a 291

<210> 4683  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559825H1  
  
<400> 4683

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tgtgtgagag agagaatcaa gagagaggag aaaacagaga caaacgctgt ctgtgcgagt 120  
tagagagtaa gagaaacccc agaaaatcag aaaatctaac cccattttt tctctctcta 180  
gtttccattt gatcgagggt tctcattgtg gttttccgat tatcgtcgaa tcagctccgt 240  
tctccggttc gggtcgggtgc aatggagcag tacggccggt ccagtgaagg t 291

<210> 4684  
<211> 289  
<212> nucleic acid  
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<223> Clone ID: 700559826H1

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 ccgatttctt gggcaaaggc ttggacgcat taggtcatgc agttgatgct ctactgcct 180  
 tcgctggcca tagcatctcc ttgcagctta tcagtgtctac tcagactgat ggtagtggaa 240  
 aaggaaaagt tggaaacgaa gcctatttgg aaaaacatct tccgacctt 289

<210> 4685  
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 <212> nucleic acid  
 <213> Glycine max  
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<400> 4685  
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 tcacattgga tcaacttaac ttacacgaca ctgtcagcaa gcacgatttc atcgtcgtcg 180  
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<210> 4686  
 <211> 291  
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 <213> Glycine max  
 <223> Clone ID: 700559828H1

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 cactctccaa cgattcctcg ttgcccttc catttcttc gcttcagaa attacgcaa 180  
 cgtgccgggg caaaaggaaa acaaagttaa ggtccctctg gctttgtttg gaggttcagg 240  
 aaactatgcc tctgctttgt atattgcac tgtgaaagct aatgcagtgg c 291

<210> 4687  
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 <212> nucleic acid  
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<223> Clone ID: 700559829H1

<400> 4687

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 tgtaaccctt cctcagcatc agctctcacc atcaaagctg cttcctatgc tgacgagctc 180  
 gtcaaaaccg ccaaaacagt ggcctcaccg gggcgtggta ttttggcgat ggatgagtca 240  
 aatgcaacct gcgggaagcg tttggcatct attgggttag agaacacaga a 291

<210> 4688  
 <211> 295  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559830H1

<400> 4688

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 ggtgctacct ttaagaagaa ggtaaagaag atccgaactt ctgtcacttt ccacaggccg 180  
 aagaccttga agaaggacag gaaccccaag taccctcgca ttagcgcccc gccgaggac 240  
 aagcttgatc attatcagat cctgaaatac cccctcacca ctgagtctgc catga 295

<210> 4689  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700559831H1

<400> 4689

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 tcgttttggc aattcagtga ccagctgagg ttacaggcat ccaatttggc gaaccttctc 180

taaacgattc gatttgggag caacaattac atctccaaga ggcgtgatga aaggattaat 240  
 tttagacatca aagtgggggg tgagatcaac tctttca 277

<210> 4690  
 <211> 297  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700559832H1  
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 catcaggcat aggctagcaa gcaatgatat ggctttcttc ccagcaaatt tcatgctaca 180  
 aacacctcac caagatgacc atcaacctcc accttcactc aactcaatta taacttcattg 240  
 tgcacctcaa gagtaccatg gtggaggagc atcctttctt ggcaagagat ctatgtc 297

<210> 4691  
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 <212> nucleic acid  
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 aatccacctt gcatgtccta acatcattgg tcaagtcgaa gatcccgaga aacagatatt 180  
 ggaaccggcg ataaaaggaa cggttaatgt gttgaaggcg gcgaaggaag caggggtgga 240  
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<210> 4692  
 <211> 288  
 <212> nucleic acid  
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 <223> Clone ID: 700559834H1  
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tgaatctcat ttgcgggtgct aaaacgcagt ctaatccaga aaatacagtg ggagttctca 180  
caatggcagg gaaaggcgtt cgtgttttgg tcacccttac cagtgatctg ggcaagatct 240  
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<210> 4693  
<211> 286  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559835H1  
<400> 4693

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acagctcgcg ttaacttaag ccctctccgt tgagtgacta gttcgtgaat attcgttga 180  
gatttgactg cgaantgggt ttagaggggt tctccaggtg tgggttgatt ttcagtttct 240  
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<210> 4694  
<211> 281  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700559836H1  
<400> 4694

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 ccaccatcaa cttcttcctt ttcttcaccc cgtacattca caaccctggc tctcttcaaa 240  
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<223> Clone ID: 700559840H1

<400> 4698

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ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctgtag 240  
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<223> Clone ID: 700559841H1

<400> 4699

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gtcgtccgta cgagaaggag cgtctcgacg cggagttgaa gctggttggg gactacgggc 180  
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<223> Clone ID: 700559842H1

<400> 4700

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<223> Clone ID: 700559844H1  
  
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ccacctcttt gccaaaggtg tgagccagaa agatagtagc ttaacacata tagtgtggaa 180  
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<213> Glycine max  
  
<223> Clone ID: 700559845H1  
  
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<210> 4703  
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<212> nucleic acid  
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[illegible]

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<213> Glycine max

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gttagcagag	cagctgagct	ggacaaacta	cttgtggagt	gcaactttcc	atctatatgc	240
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<213> Glycine max

<400> 4705

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aactatatgc	aaccattgat	ctagagaagg	cacgagtggg	gaggaccaga	attattgaac	240
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<223> Clone ID: 700559856H1  
  
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gagcccaagc ccaaggcnca tccanctctc ctgcgcctcc cacaccccaa gcatnttcan 180  
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<210> 4710  
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<212> nucleic acid  
<213> Glycine max  
  
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<211> 286  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700559858H1

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 gacggactcc aaactcttgt cctcatgaac cccggctaca tccactactc cgacgcnnnn 180  
 nnnnnnnnnn nnnnnnnatc ctcactnccg cgccggaaac ctctgtgttc tcaaccctgc 240  
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 cacagccatt ctggttgat acaggcatat tgattgtgct caagcgtata acaatcaagc 180  
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<210> 4713  
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 <212> nucleic acid  
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 ccaattttctt tctttcaaca ctttctcaca agccttggtt taaagcgcca tttgcattcg 180  
 gagtctctcc gtaggtgcc aagctctctt ctctctgtca ttgcagattc aagggttatg 240  
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<210> 4714  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559861H1

<400> 4714

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caactgggtc attattactg gttctgagtg gtcttgcttc agatcagggt tttttgctaa 180  
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atgattaccg cgcttgaaga gtagaagcaa taattcagca gtggtt 285

<210> 4715  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559862H1

<400> 4715

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gatcgattgc tacatccaaa ccctagccaa ggttctcggc agtgaggagg aagctaagaa 240  
gaagatttac aatgtttcct gtgagaggta ctttggattc ggctgcga 288

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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700559863H1

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gatcccagtg ccccttgaa gcgtgtagat gaacttttca gccctattcc tgaggatgga 180  
agaaggaaag cctatgctga aatgcaggaa aaagcaaagg cagaggaaga agcaagagt 240

gcagctgaaa aggccctgtga agctttctgaa tcagcaaaga agttggaaga 290

<210> 4717

<211> 285

<212> nucleic acid

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<223> Clone ID: 700559865H1

<400> 4717

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atcagcaggt agcacaagtg atgtagttag ggcttcaggg actgcaaac ctggcgaaat 180

agttccagct tccgataaga ctgcaactgt caataggaat gctcttgga gacccttcc 240

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<211> 256

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559866H1

<400> 4718

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aagaagctgc cactcatgac gaagcagaaa attcgcaacg ctcttttggg gcacttggtg 180

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tacgggaacc cgattt 256

<210> 4719

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559868H1

<400> 4719

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catgggattg ttggggcgca ggttccgttg ggggtgtgggt tggcgtttgc tcagaagtat 240  
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<213> Glycine max  
<223> Clone ID: 700559869H1  
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<212> nucleic acid  
<213> Glycine max  
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cgtccgtact tcctttccca aacttatccg cgcattgctg tgaacaagcc ctccatgaac 240  
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<213> Glycine max

<223> Clone ID: 700559871H1

<400> 4722

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<210> 4723

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559872H1

<400> 4723

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<210> 4724

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559874H1

<400> 4724

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ttataccac aagccatttt cagggatcca ttcagaagg gtaacaatat cttgggttatc 180  
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<210> 4725  
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<223> Clone ID: 700559875H1

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<210> 4726  
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<223> Clone ID: 700559876H1

<400> 4726

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<210> 4727  
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<223> Clone ID: 700559877H1

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ccgaactgaa cgaggttctg acacgtgagt tggcggagga cggttactcc ggcgtggagg 180  
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<210> 4728  
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 <213> Glycine max

<223> Clone ID: 700559878H1

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<210> 4729  
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<223> Clone ID: 700559880H1

<400> 4729

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 agagcaaaaa tgacgtcaa aacagcggcg gtggctgtgg ctatagtgtg catttctgcc 180  
 tttagcatca ctgtgggtggc tgaagatcca tacaggttct tcaactggaa tgttacatac 240  
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<210> 4730  
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 <212> nucleic acid  
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<223> Clone ID: 700559881H1

<400> 4730

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cagcagaaga caataatggg gtggtaaata canaggatgg aaagccagaa gaagttgaga 180  
aatatgataa gatggatgaa gatccaaagc aggaggttga ggctgancca aaggctgttg 240  
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<210> 4731

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559882H1

<400> 4731

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ctttctacca ctangtnaat acangnatga aatgggttncn atngaatanat gagantanng 180  
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<210> 4732

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559883H1

<400> 4732

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<210> 4733  
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<223> Clone ID: 700559884H1

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tcttctggaa gtttcaaaat cgttgcggcg gagaaagaga ttgatgagca acaacagaca 240  
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ctgtgtcgaa accagggggt gcctcagctt ctgggtctcc gggcaagcca gtgagtctaa 240  
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<223> Clone ID: 700559909H1



Table 1. Demographic characteristics of the study population	
<b>Age</b>	
Mean (SD)	65.5 (10.5)
Range	45-85
<b>Gender</b>	
Male (%)	55
Female (%)	45
<b>Education</b>	
Mean (SD)	12.5 (2.5)
Range	8-16
<b>Marital status</b>	
Married (%)	65
Single (%)	35
<b>Occupation</b>	
Retired (%)	75
Working (%)	25
<b>Income</b>	
Mean (SD)	1500 (500)
Range	500-3000
<b>Health status</b>	
Good (%)	40
Fair (%)	35
Poor (%)	25
<b>Comorbidities</b>	
Hypertension (%)	30
Diabetes (%)	20
Cholesterol (%)	15
Arthritis (%)	10
Depression (%)	5

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<223>      Clone ID: 700559910H1
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1722

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actgtcccag agctgactca gcaaatgtgg gatgccaaaa atatgatgtg tgctgctgat 240  
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attcccaatc tcccaacata ccctaactct ttgcaagaca accctgctta ttcagttggt 240  
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 tagcctgttg agtcaatata tcaaggagaa gggtagcttc ggagatctta ccctcggaat 240  
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 ggatgacttg cactgccgaa acaaacgggt cccctgagac atcgtgtcac tctgcaacaa 240  
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 gtttgaacc tggtggagct aaaaagggtca catgctccct tcaggctgat ctttaaggact 240  
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307

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ttgtgttttt cattttttta tttatagagg gaggttggtc atgtgctact gtacgtgtct 180  
aaataatggt gtattgatct tgtattgtgc accgtcaaata tatgaatggg caagctgttg 240  
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ctaagagtnc gcaatgcagt tttttagctg gagcaaaca ngtgaggttt cctaggcaag 180  
tcggtcaagt tagccacgtt cgcaaacagc gccaaacgag nactgtggtg ctctccacgc 240  
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 agtgcctgct gatgtgtcta attcacatac tattaatgac ccgtcgaagt catccggcta 240  
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 cctcggcctc aagccgctcc gcttcccggc gtacgccag aaggcgccca tcctccccac 240  
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<223> Clone ID: 700559942H1

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ttagcatacc tgcaaagttg tactcttttt tnttcctncc cnttgttttg agctctcaga 240  
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<223> Clone ID: 700559943H1

<400> 4775

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gaccttggtt gggatgatca ctggatcttc tgggtgggac cttcattggt gctgcacttg 180  
cagcactcta ccaacaggtc gtaatcaggg ccattccctt caagtccaag tgattcaana 240  
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<223> Clone ID: 700559944H1

<400> 4776

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<210> 4779  
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 ccgtctttac gataaagtgt tgggaaaaac tgcaaacag aattgtgtat actcaaagct 240  
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<223> Clone ID: 700559950H1

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<223> Clone ID: 700559951H1

<400> 4781

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 aagattgaca ggcgatccgg caaagagctt gagaaggagc ccaagttttt gaagaacggt 240  
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 cangcanaag atgaagtact tgcgtntcct ccgcaagcgc atgaacacca agccctccac 240  
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 gatgtcatcc atgccggaaa aacctcta atggagggcgc aatgctgcgg ttttagctgg 180  
 tactaatggg gcatttcacc ataggacat tgggtggtntg cccaagcta catactatgg 240  
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cgggagggtc agcatgagga agaccgtcac caagcaggcc tcctccggaa gcccatggta   180
cggcccagac cgcgtcaagt acttggggccc attctctggc gagccccgt cctacctctg   240
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<223>      Clone ID: 700559958H1

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<210>      4787
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<212>      nucleic acid
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<223>      Clone ID: 700559959H1

<400>      4787

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<210> 4791  
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<212> nucleic acid  
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<223> Clone ID: 700559964H1

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<210> 4792  
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<223> Clone ID: 700559966H1

<400> 4793

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caaaagcttc ttttcttagt gggaggaaac tgaaggtag caactttaca gcaccagttg 180  
gagcacgatc cagcactaca gtttgcgcag ttggtgagcc tgatancct ctgtggttcc 240  
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304

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<223> Clone ID: 700559967H1

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tttggcataa tccaaatttt attttctcaa attccagatt ttcataaaat ggtggctctc 240  
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<223> Clone ID: 700559968H1

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ttgcctctcc attganagga tatggtgtgt ctcaagtgtt ggaatctgga cgtccagaac 240  
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<223> Clone ID: 700559969H1

<400> 4796

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 gtgttttttg ccaagccact caagtgcaag cctgnntccg cgtttcacta ccgttctgcc 240  
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accacctgct caacgcggag caccacttct ccgccttcaa gacaaagtgc ggcaagacct 180  
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<223> Clone ID: 700559976H1

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ntcaaagaat tctgtgtttt caaatgcttt gtcaagtcca gtacgtcgaa gccttcacat 240  
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<213> Glycine max

<223> Clone ID: 700559977H1

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aacgacnaag ggaacagaac gacgccgtct tacgtcgggt tcaactgatac cngcgttca 240  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559978H1

<400> 4803

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cccattcaga gtggattagg aggtgcatat tatttttagga acagcaatgg tgaaaatgtt 180  
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<213> Glycine max

<223> Clone ID: 700559979H1

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<212> nucleic acid

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<223> Clone ID: 700559982H1

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ctggacctgg ggtttcagct cccagttcat ctttctttgg gagcagcttg aagaaggtta 180

ttggctcaag ggtccccaac acaaagattt cctctggaag cttcaagatt gttgctagaa 240

gagaagaaag agattgaaga gaccagcag accgacaagg acagatggaa ggtcttgcc 299

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aaagttatca tggttgaagg aaaagaaaag gaaattatta gagatgacga tgaaaagctg 180

aatgggttga aaaatgactt ggggtgaagg gcatataaag cagtgggtgga agcttttggga 240

aataaatgaa catatcctag tggacgatac ttaacctcag tattatggac tataaac 297

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<210> 4809

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559987H1

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<210> 4810

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700559988H1

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 cacctcngga gaaacgaana tgnccaccgt tatccgggat ggcacatttg tgagcaagtg 240  
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tgccaagctt gaaatgatgg aaccttgctc cagngtcaaa nacagggata ggatatagcg 240  
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 gtattatgtc aaacagtgtg gatttgtatt atacttgggt aatatacnan ttcaatgttg 180  
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tgaaggttga gccccaaaacc cagcaatggt ttcacctcaa aagtgggttga tttgttggag 180  
 aaattgggtgg tgaagttctt gtatgattct tcactgcccc atcactacct cactggtaat 240  
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 ctgcagttct aggaatcttt gtggggcagg catggagtgg agtgccatgg tttgaggctg 180  
 gagctgaccc aaatgcaatt gtcctttct cctttggtac tcttctggga acccagttga 240  
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 agaagacgac aacaaganta agaagaa 147

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 gtccaana 128

<210> 4827  
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<210> 4830

<211> 163

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560015H1

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<210> 4831

<211> 172

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<223> Clone ID: 700560016H1

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<210> 4832

<211> 174

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560018H1

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 tatccccgtc gggattgga tattcccgtc cccggttag atatgtannnnnnnnnnnn 180  
 nnnnnnttat attaaaaatt tgatttaaaa aataattgat acgggaatgg atatgggatg 240  
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tagatgcaac ctcagcacga gggttaacag attccgaccg tctcaatgaa tgttgatgatt 120  
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 agcggcattt gaaggtg 137

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 ccagcatggc caggaacagc tattcccgag ccttctgatt tcaagacatg ggatgggcaa 240  
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tgaagaa 187

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 caacgccggg aaccactcgg cggttaaccc ggtgatcgtg ctccgcggac cgggagagga 240  
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 <223> Clone ID: 700560050H1  
  
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 ctggtggcgg gacatcaacc gctccccgnt ctggnaggat cgcattttcc acctcctcgc 180

natcctctac ggaatcgctg ccgccgtcgc tctcgtacaa ttagtgcgat a 231

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<212> nucleic acid  
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<223>      Clone ID: 700560082H1

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 tgaaggagag agaggagcaa aagctgagga tgaagctggc gaagaagata aggttgaggc 240  
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 cccaagcatg gaacaagtgt ataacgagtt tgtgatgcca acatatcttc agtgaattta 180  
 ttctccatgg tcacacttag tcaactcgtt gataatgaac cttgtttcca gcctgttgta 240  
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<210> 4914  
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 ttccaccca atttcatggc gttgcactcc tctcattgct agcctagttt cgctgtgaga 180  
 gctgactcca acgtcgaagg cgctggtgaa gccaccgagg atgtttcttcg tataatgttg 240  
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<210> 4915  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560134H1

<400> 4915

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cgttgcaatg gcccgggtact tactgcaaac gcacccgcag ttgtgccccca ccaacggttg 180  
ctgcagaggc tccaattttc caacagtgtt caccatacat ggactctggc ctgactanaa 240  
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<210> 4916

<211> 272

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560135H1

<400> 4916

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ngatgccaat aacttnagta catcactgat cacttccggt acaaatttgc aaatgagagg 180  
ctganaagaa cagcaagata ttactcatcc aattggagaa cttggggtgc tgtcaacatc 240  
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<210> 4917

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560136H1

<400> 4917

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atgnnctatc tcattagagc tcatgaagga ccccggttac gtctcaccgg catcacctac 180  
gaccgncaca gcatcgagaa gtggctcttc gccgccgtgc cgaagaacaa cacgtntccc 240

gtcacgaagc agcccctcct cgcgganctc antnccaacc acacgctccg cagctcatc 299

<210> 4918

<211> 298

<212> nucleic acid

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<223> Clone ID: 700560138H1

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tncaggaag aacaataatc caganacgaa gatatatgac aggatgagct tcttggcang 180

gatgcagtca gaggcagann agatagtaga gatgaggaga nattctagct nctgacacag 240

ggcgtctaa cattcaatct tctggtgaaa atgttggtgg tagttcctca tcaaataa 298

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<213> Glycine max

<223> Clone ID: 700560139H1

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acgcttcgat ttccttctgc tgggcacgtc agaattggac actgacacaa acctcgtttc 180

cctctttcgt tgtcaaagcc gccactgttg tcgcccccaa gcacaccact gttaagcctc 240

tgggtgatag agtactggtg aaaattaagg atgcagagga gaagatgcag gt 292

<210> 4920

<211> 296

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560140H1

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gtggccattc gccagcaaa gaaccctttt tgcgtgaagg gtcgctcta ctgtgacct 240  
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cgcgtgtttt ccggccaccg ccacgctccg cggcaacgag ggtgcaaact tgccctacat 180  
aacctccctg acgaggttta tgagaaggag tgggatttga tcatgatcga cgcgccgaag 240  
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<210> 4922  
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<212> nucleic acid  
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gtttaccccn tgaaatgcaa ccaggaccgg ttcgtggtga ggatctctg aaattcgggt 180  
cacccttccg gttcggctctg gaggccgggt ctaagccgga atccttctgg ccatgagctg 240  
tctttgcaaa ggcaaccccg acgcgctttt gatttgcaag gcttcaagga cgcg 294

<210> 4923  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560148H1

<400> 4923

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 cctccacat catcaactac accgacaatg aggtcatggc cagtacgagg agtggttggt 180  
 gaagcaccaa aaggtgtaca atgagttggg aaagaaggac aagagattcc aagttttcan 240  
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<210> 4924

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560149H1

<400> 4924

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 tctgttatca cagttgttct ttcaacttgc atgggtgggt ccatagtaaa gttccttcct 180  
 ggattagagg gaccccttcc ttttgttctt gaaaccgggt atgtgggagt gggatgaatca 240  
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<210> 4925

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560150H1

<400> 4925

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 atgctgttct acaacgggtg cgcattgtga acccccttta cagccaattg tctcttcgcg 180  
 gtttgaatct gttacacctg ctgcattga ggagcatggg tttgagagca ccacaatttc 240  
 agacatcttg aatgataaag gcaaggggtg tgatggctcc tggctttggg gca 293

<210> 4926  
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 <223> Clone ID: 700560151H1  
  
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 gtgatggctt atgagaaata catggcttgt tggggcctag tccttctggt gggaaaaata 180  
 caagcaacaa aatggccaag caagctgcac tgggatttgt caaacggaca ttggagcgat 240  
 gccatcaatt taaagatact ggcaagagct gcttcagtga tcccttattc aa 292

<210> 4927  
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 <212> nucleic acid  
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 <223> Clone ID: 700560152H1  
  
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 aattgtagtc tggagangcg tcctcagtgg cggaccgggc caagtcccct ggaanggggc 180  
 gccaganagg gtgaganccc cgtcgtntccc gnacnctgtc gcaccacgaa gcgctgtcgg 240  
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<210> 4928  
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 <223> Clone ID: 700560154H1  
  
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gctggccact cagtcacccat actcactgtt ggtgaagagg ctccgacaag atgaagaaac 180  
 ctcccttcaa nagattctca gaaattgtga gtgccggagg gcgcacggtg tggggaaatc 240  
 ctgcagaagt agggagtgtt gtaggagggg nagtgtttna tcccgncttg gaca 294

<210> 4929  
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 ggccaccaga taattgggcy tgcattggga ggaaaagtgg tcgctctccc aatggttggg 180  
 acattggtgt taaagcnata aacgtgtcat catctntacc cttggcttnc tcatctctta 240  
 agctcccatc aaagctttcc atttacaat gtcaccggga tgagatccta gagct 295

<210> 4930  
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 <212> nucleic acid  
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 <223> Clone ID: 700560156H1  
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 tccctcttag accccgaaac attagtctcc tcgaaagaat cgtcatctcc gaaaaccct 180  
 ccatctccgc gcgcgtgtac ctccgcca aactcaacaa ntcccaccaa caaaagcttc 240  
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<210> 4931  
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 <213> Glycine max  
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gagtttagct ccaattactc gacgggaccg nccccgtgcc tctccctca ccaaacnttg 180  
ctctgggcct caaagggggc accttcactt acgaggnatt agcagctgcc accaacggat 240  
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<210> 4932  
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<223> Clone ID: 700560158H1

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tagacgattt gttcaatata aatggctgct actcgtggag tgatgaggaa accattctac 180  
gtgccttacc tgctgatctt cgccgtgata tacagcggca tttgtgctta gaccttgta 240  
gaagagttn cttcttctca cagatggatg atcagcttct ggatgcaata tgtgag 296

<210> 4933  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560159H1

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ttcaagaaag ggactacctt ttggatttgg caaccttgan ctcacatgtg tctgctgat 180  
gatgatacca natctgtgan ggttcttggt caaatcacat tactgttctc caaacatcac 240  
cggcggccac cgcaatgac tacttcaaata ccaggnggac aaacagtttg gggg 294



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 <212> nucleic acid  
 <213> Glycine max  
  
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 gagaagctct tgctgtatgg taacatgctt gtccaaaaca agagaatgtc aagagagtcc 180  
 aattggctga caagtacttg aacgaggctg ctcttgaaa tgctaacgag gatgctattc 240  
 agaggggaac tttcttccag tcttgaattg gaggcaaagc aaacttggca a 291

<210> 4935  
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 agacctgggc tgctcttgca tcgtttgcat tcaacctccc agtgaaaggc cccaagcat 180  
 aagcagacat gcacatgtaa tgtatgctta ncagtgaagc gacgtttccg tacccttatg 240  
 ttacggcgtg agaagaaaca atcagaaaaa gaagcagaga caatcgtaaa aagcaaca 298

<210> 4936  
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 <212> nucleic acid  
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 <223> Clone ID: 700560162H1  
  
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 agccatgatg gcccaaaaag ataaagcagt ttctaattctt acaagggtat tgaaggtcta 180

ttcaagaaaa acaaggtaaa ctatgtcaaa ggttatggca aattagtttc accatctgag 240  
gtctctgtgg acaccactga aggtggaaat actgttgtga aaggcaagca nattata 297

<210> 4937  
<211> 297  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560163H1  
  
<400> 4937

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cttccagggc ccggaactt cgagaaaatc cgtcattgaa attcgcgagg ccgtagagaga 240  
ggagcgaaac gcgcaggtcg ttctgctcaa ctaccgcaaa gacngcacgn cgttttg 297

<210> 4938  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560164H1  
  
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caaggaccgt aaggccattc tcgatcgaag gccaaagggtc gcgcccgcgc cgataaggag 180  
aagggtacca agttcgctcc cgaagatata atgcaaaccg ttgattagtc tcttttgccc 240  
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<210> 4939  
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<223> Clone ID: 700560165H1  
  
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aactttatta catgaataac atgctctaaa atatatttga gggaaaatgg cacatgattt 180  
tgactaattg accttttaaac ttgtagcaga tagaattcat tcaacctttt acagtnaggt 240  
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<210> 4940  
<211> 291  
<212> nucleic acid  
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<223> Clone ID: 700560166H1  
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atcggaattt ctcanctgtt tgttctgata tccaaatcct ggctatgttg attgccattc 180  
aaattgtaat aagtctacat ctcaagcgtc tttgtttttg tgttccgact ccaacagtag 240  
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<210> 4941  
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<212> nucleic acid  
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<223> Clone ID: 700560167H1  
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cagcaattca gtgaatatat atgttggtat tgtgttccat ggcttattga tactttgtac 180  
aacttcatag catatagaga acctctccga atccaaaatg caggggggact aagcttttctg 240  
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<210> 4942  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560168H1

<400> 4942

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aaaaccagat agngacagt ttctgaaaaa aaatttagca ctaatagggt ccaccggaag 180  
gcatganata gttgtctctt gtcaagctct ggataacatg ttgaaagtaa gagtttggcc 240  
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<210> 4943  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560170H1

<400> 4943

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tcttctcat cattttgcnt atacaaagat tanaatgaac ggtttttggn gatngcttca 180  
atatgatttt gctgangttg tgcttcacca acttgagcat agctttgctc aaagtcatat 240  
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<210> 4944  
<211> 294  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560171H1

<400> 4944

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tcattctcga cgaagactca cgccccggag acgcgccgct taccaggagg agcttgggct 180  
gagggtgacc ctcaagccgc accaggtgga aggggtttcg tggctcatc ggaggtacaa 240

actcgggtgtc aagtcgtcct cggatgatgag atgggatggg caagactttg caag 294

<210> 4945

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560172H1

<400> 4945

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gccgatgggtg gttttggccg ggtctttcat agattgggtg gtagaggctc agatctacgg 180

taccgaggta caacagagaa tcgatgacaa gaacgcanat ccgacggtag atccagccga 240

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<210> 4946

<211> 295

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560173H1

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gccattngca gctgttgncc atctnccaca ccaagttccc agaagaatgg atcactcttg 120

ggaagcacia aagcttcttt tcttagtggg aggaaactga ggtgaacagt tttacagcac 180

cagttggagc acgatccagc actacagtgt gtgcagttgc tgagcctgat aggcctctgt 240

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<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560174H1

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nccacaangg ttactcnttn tncctntcct atttcaaccc atgcatggct tgtctgagcc 180  
gntnnnnnnnn nnnnnnnnnn nnnnnnggcg ccagctggct ctcttccccct gacgaaatgc 240  
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<210> 4948  
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<213> Glycine max  
<223> Clone ID: 700560177H1  
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gattnggttg tgcagcatga cgtggatgct ggtgtttgaa gaaagtgggtg ttggctgagg 180  
gagcagcggg taccgtcaaa ggtgcaagat ccgttagtct tcggcaacct cttgatttcc 240  
ctcttccgtt aaaccgaacg gagaatgggtt tgctaacggt ctttaa 286

<210> 4949  
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<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560178H1  
<400> 4949

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taaaatcttc aggttttgtt acagttgtaa taattgggtg tgattggatt gaagagaaaa 180  
agaagattat gaatatgggg ttgaaattga aggagacgtt ctacttgtcc catggagcac 240  
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<210> 4950  
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<212> nucleic acid  
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<223> Clone ID: 700560192H1

<400> 4950

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 gagctaaaaa ggtcacatgc tcccttcagg ctatcttaag gacttggctc acaagtgtgt 180  
 tgatgctacc aaaattgcag gattcgccct tgccacctct gccctcgttg tctctggggc 240  
 aagtgtgaa ggtgttccaa agaggctaac cttcgacgaa atccaga 287

<210> 4951

<211> 297

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560201H1

<400> 4951

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 gtatctcaaa gctgctgcac tctacactca agccatcaag ctagaccctt ctaaccctac 180  
 cctctatagt aatcgtgctg cagcactact gcaattggat aagcttaata aagctctaga 240  
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<210> 4952

<211> 293

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560202H1

<400> 4952

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 gagcttcagc tcccagttca gccttctttg ggaccagctt gaagaagggt attgcctcaa 180  
 ggggtcccaa cagcaagggt tccggtggaa gcttcaagat tggtgctgta gaagagaaga 240  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560203H1

<400> 4953

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 ccctccactc ctctctcacc caccgccgaac tcgtctcttc acaaaacntn cnagcncgtc 180  
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<210> 4954  
 <211> 287  
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 <213> Glycine max

<223> Clone ID: 700560204H1

<400> 4954

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 accactggcc acctgatcta caagcttgga ggcattgaca agcgtgttat tgagagattt 180  
 gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt gcttgataag 240  
 cttaaggctg agcgtgaaag aggaatcaca attgatattg ccttgtg 287

<210> 4955  
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 <213> Glycine max

<223> Clone ID: 700560209H1

<400> 4955

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 ggtgcccgta ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180



atctttggct ttgagaccat tcctgaagag tgcgttgaag caacaaagga atacatccat 240  
ggcgaacaat atagatcaga ctccaaaaca gttaaccaac aagctta 287

<210> 4956  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560210H1

<400> 4956

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tcaagcttgt tgacaccttc cccggccaat ctattgattt ctttggtgca ctcagggcta 180  
gagtatatga tgatgaggtg aggaagtgga tttctgttgt tgggtgttgac ttcattggga 240  
agaagcttgt gaactccaag gaaggacctc caacctttga ccaac 285

<210> 4957  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560211H1

<400> 4957

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gctacatgga tcaacttccg ccataatggt ctatcaagta ccatacttct attgataaaa 180  
tatacagact gaaaatgtaa atgttattac ttattatttt agtattttct gtttataatt 240  
caatattcat gtagttctat cattaatctt cttcagatat gaagt 285

<210> 4958  
<211> 285  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560212H1

<400> 4958

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 tantataatt tcatatatcc tccaatattg ctggtgggta gcactcacan gagacaggct 180  
 caactaccag acaaattttc cattcccggc atctcctcca aacctacgta cccagatac 240  
 cctaaattcg attcatacac ataacacaac acaacctcgt tcctt 285

<210> 4959  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560213H1  
 <400> 4959

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 tacttactgg aacagcattt caacagctga gctctttcat tcaccaacca gccgaccaat 180  
 atcctgtaac aattggcact gctattcctt taaaagcaag ttttttcatt acttatataa 240  
 tggttgatgg atgggccagt atagctgcag aggttttgat gttga 285

<210> 4960  
 <211> 285  
 <212> nucleic acid  
 <213> Glycine max  
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 gtaagaaaca gcatcgtatt catgatgttg ccctcatca tatccataag gtggaagtgc 180  
 atgaagggtga gtgggataaa tctggcaata tcaaggtgct tacattcgct gatggggaca 240  
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<210> 4961  
 <211> 287

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560215H1  
  
 <400> 4961  
  
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 ctaaggtctt cttcgacatg accatcggcg gtcaatctgc tggccgcacg gtgatggagc 120  
 tctacgccga cgtcactccc cgcaccgccg agaacttccg cgcgctttgc accggcgaga 180  
 agggcgtagg gcgaggggca agccctcca ctacaagggc tcgtccttcc accgcgtgat 240  
 cccgagtttc atgtgtcagg gtggcgactt caccgccgga aacggaa 287

<210> 4962  
 <211> 98  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560216H1  
  
 <400> 4962  
  
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 aaaccnatta ttattgatta ttgattgata ntaacatt 98

<210> 4963  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560218H1  
  
 <400> 4963  
  
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 ggtgcccgta ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac 180  
 atctttggct ttgagaccat tcctgaagag tgcgttgaag caacaaagga atacatccat 240  
 ggccaacaat atagatcaga ctccaaaaca gttaaccaac aagcttact 289

<210> 4964  
 <211> 287

<212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560219H1  
  
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 tgctggttat gtgactgaag ctacaagagg aactggagta gtatcagcca gcagtttggg 180  
 ccttgttgaa atattgatgg atgcggatca atggtcggag atgttttcat ctatgattgc 240  
 tagtgctgcc actgtggaag tactatctag tggcacgggt ggaacca 287

<210> 4965  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560220H1  
  
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 ccagcatttg ttccttgtat gtatatgttt tcctctctct atatctcttg ctttgttttg 180  
 ttgtgcttca ctactagatc tgaatttttt tttgctgtta ctattcatca tccactcatt 240  
 aagcaatcag gggtaactag gtggatatat nccaaata 278

<210> 4966  
 <211> 286  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560221H1  
  
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 aaactcgcga attggaaaaga catcgacggc tccgcgtgat acgttctctt cctgtctggg 180  
 tatcaatggt ggctattagt gcaattgcat ctttgcccgt attaccacca gtcagaagag 240

gtggccactg cattgaacag aatgttggtt ccacattgag ctttcc 286

<210> 4967  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560222H1

<400> 4967

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aaaaatgggtg accgtggagg aaatccgcaa cgctcagcgt tcccatggac ccgccaccat 180  
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ctacttccgc attaccaaca gcgnacacat gactgatctc aaagnnc 287

<210> 4968  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560223H1

<400> 4968

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gagggtcgat ctgaacgtgc ctttgatga caaccttaac atcaccgatg aactagagt 180  
ccgtgctgct gttccacca tcaagtactt aactggtcat ggagccaaag tgatccttct 240  
agccacttgg gacgtcctaa aggtgtaaca cctaaataca gtttgt 286

<210> 4969  
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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560224H1

<400> 4969

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93

<210> 4970  
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<212> nucleic acid  
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<223> Clone ID: 700560225H1

<400> 4970

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atcgaggctc cggcgaacaa cccggccttc cgcgccttca tcaacaacct ctccgcgtcc 180  
ctccgacacg gctctgacca ggcgcgcccg tggctggagc tcgggggaccg ctccggttct 240  
cgaagcccga gtccttctcc gaagccaccc tccgcgtccg caagaa 286

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<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560226H1

<400> 4971

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tgtcaggaag gttctaagag aagctgctaa tggcggacgg gaagcagaac gcgtcaagct 180  
caaattggaa attaaagtcg aagagctttc tgattatgac aaagaagggt ctattttgctg 240  
tgttcgtgga aagaacattt tggagaatga atatgtcaag attg 284

<210> 4972  
<211> 287  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560227H1

<400> 4972

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cccttatgtc tctcttagtg cctngaattt tctatagccc ttctgtgcaa aatttgcac 120  
 ccttaattct tgtagaattg atgtctgggt tggtagaatc agatttcctc accttcaaca 180  
 gcaagggggc aattcaccaa acataaacat gagnagcaat tttgaggctg aaagtcagta 240  
 cttaacggag ctgctagcag aacaccagaa gcttgggcct ttcacgc 287

<210> 4973  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560228H1  
 <400> 4973

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 gaaatccact accactggtc acctgattta caagcttgga ggcattgaca agcgtgttat 180  
 tgagagggtt gagaaggaag ctgctgagat gaacaagagg tctttcaagt atgcctgggt 240  
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<210> 4974  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560230H1  
 <400> 4974

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 cagattaagt ccttggttga tgttgagggt ggcattggag ggtctcttcc ggagattggt 180  
 agggcttacc ctcatatcaa tgccatcaac tttgacttgc ctcatgtggt tgccactgct 240  
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<210> 4975  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560231H1

<400> 4975

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ggtgtacgat tacatggaca atgggagcct gagtgatcat ctccacaagc tccaaagtcc 180  
agctctcatg tcatgggcag tgagaatcaa ggtggctcta gatgctgcaa ggggcataga 240  
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<210> 4976

<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560232H1

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ggtatcaa atgagtccaa agaagaggac ttgcagaaca agagcccttt gtcctcaaa 180  
atgaaccggt ttcacaagaa aatcccggtt ctcattccaca atggcaaacc catttgtgaa 240  
tctctcggtt ctgttcagta cattgaggag gtctggaatg acagaaatcc c 291

<210> 4977

<211> 291

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<213> Glycine max

<223> Clone ID: 700560233H1

<400> 4977

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tctntgtcgg tgtgtggcaa catgnccgan ttgaaatcat cgccaacgac caagggaaca 180  
gaacgacgcc gtcttacgtc ggnttactg ataccgagcg tctcatcggg gatgcggcta 240  
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<210> 4978  
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 ccagcgggtc ccgccggcgg ggcgcaggcg tgaccgccga catcctgtgg ccgaatttga 240  
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<210> 4979  
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 tggaagctat gacttcattt ttgttgatgc ggacaaggac aactacctca acnccacaa 180  
 gaggttgata gagcttgtaa aagttggggg cgtgatcggg tacgacaaca ccctatggaa 240  
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<210> 4980  
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cattcccca ggatgacca tccaaggcac ccaagctcac tgcattcttg ggttacaagg 180  
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<210> 4981  
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 <212> nucleic acid  
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 tgtcccctgt ttttgacaac tttatagatc gccacgtaa gcacgggagc tccgagagaa 180  
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<210> 4982  
 <211> 288  
 <212> nucleic acid  
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 <223> Clone ID: 700560240H1  
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 agagatttgg tgtgttgatg tgccgagagg attcagagta cgtgaagaaa gtntacggag 180  
 gatattctgg agttttcgtg agaatgctgg cggaggaggg agagacatgg gacgtgtaca 240  
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<210> 4984  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560242H1

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<210> 4985  
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 <223> Clone ID: 700560243H1

<400> 4985  
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<210> 4986  
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<212> nucleic acid  
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<223> Clone ID: 700560244H1

<400> 4986

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 agcggcattt gaaggatgaag gcgaagagga atattgtgga catgcctgga aacggtgacg 180  
 ttcctttttac tcacgcgaat attagtctcg cccggagaga gctcgggtac aagcccacga 240  
 ccgatttgca aaccgggttg aagaagttcg tc 272

<210> 4987  
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<223> Clone ID: 700560246H1

<400> 4987

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 aaatgatatt actccttcca gctttattga ggcagcaatc caagtcgctg attgtggata 180  
 tgaagatggc acttggtggg gtanacagnt ggggtggttg tatggatcac tcacagaaga 240  
 tgtgctaact gggttgagta tgnaaagaag aggttgagga tcc 283

<210> 4988  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560247H1

<400> 4988

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 ttccccacga ggaagaccaa caatgacatt acctccattg ctagcaacgg tggaagagta 180  
 caatgcatgc aggtgtggcc accaattggc aagaagaagt tcgagactct ttcctacttg 240

ccagacctcg atgatgccca attggcaaag gaagtcgaat accttc 286

<210> 4989

<211> 289

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560249H1

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ctctttcttc tcccacgcgc tctcgaaccg tcgcaatggc cgtatccgtc gaccccaaga 180

ccgacaacaa actcactctt accaagtccg aggaagcttt cgctgctgcc aaggagctga 240

tgcttgaggg tgtcaactcc ccagttcgtg ccttcaaate cgtgggtgg 289

<210> 4990

<211> 285

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560250H1

<400> 4990

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tcagtcatca gacaacacct atggatcacc aacaagtga cactctagat atgatgatga 180

cggctacgaa ttgaagaaca agctagagaa ctcgagattt cgttggtggg gcctgattca 240

gacattgttg atagttggca ctgctctac aagggtggcc gccac 285

<210> 4991

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560251H1

<400> 4991

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 aacaaaattg ctgtgggtcaa gtattctctg ttgggttcta ttctttcaaa ccttcttctg 240  
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<210> 4992  
 <211> 284  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560252H1  
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 cgcgattccg ttttcttctt cgcttcgttt tctacttctc tttatcttct acttacatta 240  
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<210> 4993  
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 <212> nucleic acid  
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 ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgctctg cgatccgagt 180  
 catccccgac tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga 240  
 taaaaaggct ttcaaagaca ccgttgactt gtttggtgan cttcc 285

<210> 4994  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560254H1

<400> 4994

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ataaatccgt tattgcggc 79

<210> 4995

<211> 284

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560255H1

<400> 4995

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caccaagtct acctctctcc caagcaggac ctccatcatt accccagaga gagttgtatt 180  
caagaaggct tcattgcaat acagagatgt ttgtagcagt ggaagggtag tttccatcag 240  
agctcaagtc accactgagg ctccagccaa ggttgaaaaa gagt 284

<210> 4996

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560257H1

<400> 4996

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ggccgatact ccttattggt gcctcgcgtt gtgggtgtgca ccatgtgtgt cttaccttct 180  
tcgcaaacga gctctctatg atgatatgtc aaggtacaca tgttggtgctg gctacatgcc 240  
ttgcagtggg aggtgtggag aaagtaaag tcctgaattt tg 282

<210> 4997

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560258H1

<400> 4997

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 tgatgtttac gatatgggtg tgttgcttct tgagattatc tcaggctcaa atcagttgga 180  
 ttcaccaact ttggctttac agcatgtaag ggctggaaaa tttgaagaaa ttttgaccc 240  
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<210> 4998

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560259H1

<400> 4998

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 ctctccgatg ctggcgctcg tcggagaagc agccccacga cgacgcgctg gagctccctc 180  
 tcttccctct ccctttggtc ctcttccccg gtgcgatcct cccctccag atcttcgagt 240  
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<210> 4999

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560260H1

<400> 4999

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 ccgcggagtt tcaacgatgc atgattccgc ttttagaca gatttcacgc tgctcaata 180  
 gctctcactt tcaggttgca gaacgagccc tcttctgtg gaataacgag catattgtga 240  
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<210> 5000  
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 <212> nucleic acid  
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 <223> Clone ID: 700560262H1  
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<210> 5001  
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 <223> Clone ID: 700560264H1  
 <400> 5001

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 gctgcacctc ctagcaccaa tgacaatgat gttaacatgc aagatgctaa ttccaaggca 180  
 actgctgatg cccttggtc cgaaaatggg accctgagg caggagataa gcctgtgcaa 240  
 atggatactg ataccaaggt tgaggctcca aagaaaaaag ttaagaaa 288

<210> 5002  
 <211> 288  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560265H1  
 <400> 5002

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 attctaagag tgtctcgctc cctcattcat gtccgatctg tacgacggag gacgggtagt 180  
 tgcgtaactg ccgttaaccc ttgcgcgcac ggtgggcgtg gtgctttgcc ttctgaaggt 240  
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 ttaaagcggc gcaactgggtc tgaaaaccac ttgcatcgaa aaacgtggca tctcggcgggt 240  
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<210> 5004  
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 <212> nucleic acid  
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 caaagcctaa agaaaagaat gtcagagaaa tgaagaatgt gctaaatgat accgagatga 180  
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 ctttctacag agagcgggtc tggaatttaa gcctcctaag tttt 284

<210> 5005  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560268H1  
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tccctcagaa taataattaa ttctttcttg tgcctgatt nnnnnnnnnn nnnnnnnnnn 180  
 nngtgtgttc atttcagaaa aagcagggtg aaaacaattg ntntcattg gatttggagg 240  
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<210> 5006  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560269H1  
 <400> 5006

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 gtgccttttg cagttgtaga caatggcatt gtcaaggagg aggcgcagat cattaaagga 240  
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<210> 5007  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560270H1  
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 tgagaagagg aaacacaagc tcaagcgtct tgttcagtca ccaaactctt tcttcatgga 180  
 tgtaagtgc cagggttgct tcaacataac cactgtcttt agccactctc agactgttgt 240  
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<210> 5008  
 <211> 274  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560271H1

<400> 5008

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aaaaactctc aactctctca ttccaaggca ctcaattcac ctcaatgcc gaaaacatct 180  
ttacaagggc tctcaattca tgaagccaaa aggggtgttt cagaatcctt cctagttgag 240  
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<210> 5009

<211> 287

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560272H1

<400> 5009

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ccgtgaagga tgacaagatt ggtgagaaac ttgaccggc tgacaagaag aggantgagg 180  
atgcaattga gcaagcaatc cagtggtag acagcaacca gcttgnanan gcagatgant 240  
ttgaggacan aatgaaggaa ttgganagca tctgcaatcc aatcatt 287

<210> 5010

<211> 280

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560273H1

<400> 5010

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tatgactact cattagacat gtggagtctt ggctgcatgt ttgctggaat gatatttcgc 180  
aaggaacctt ttttttatgg tcacgacaac catgatcagc ttgtcaaat agctaagggtg 240  
cttgggacag atgaactgaa tgcatactcg aataagtatc 280

<210> 5011  
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 <212> nucleic acid  
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 <223> Clone ID: 700560274H1  
  
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 gcnaaaaagg tcacatgctc ctttcaggct gatctnaang acttggctca caagtgtgtt 180  
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 tgcgactggt aactcatct cttgcgtaaa tccccaaccg gcaccatcca cgttcacgtg 180  
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 gatngtnagg atgtcctcaa catatgttct gatcctcctt gccactcatc gaatgcagac 180  
 tagatgaagt ctagcatcta caaacctcag ccttnatnta ctctcttgtc acacgggaac 240  
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<210> 5015  
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 <213> Glycine max  
 <223> Clone ID: 700560281H1  
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 ctgcggaggc tgcaagatgt acccagactt gagctacact gagtcaacca ccaccgagac 180  
 cttggtcatg ggagtggcac ctgttaaggc tcaatttgag ggtgctgaaa tgggtgtgcc 240  
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<210> 5016  
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 <212> nucleic acid  
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 <223> Clone ID: 700560282H1  
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 actcattcct aaaccaagtt atccctgaaa acatcaccga attccaagtg tctctgtccc 180  
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<210> 5017  
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 <212> nucleic acid  
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 ccggagttgg aagtgcgaagc tgtgccaatc acagatccat ttggcccttc cattacagat 180  
 gagaacttgg aggctgtgat tgtaagcaaa gagacattac cgggaggatt ggctataaac 240  
 agaagaagag ctgaaagaga tctttcacag ttgaagattg aagt 284

<210> 5018  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560285H1  
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 taacttgcta attgaggttg ctgctttgta tgatttgaag agtttcagta aggagtgtgt 180  
 tctaacaaaa natctttagt tgagccaatt ttaagctatg atcaagcaga tattaatatag 240  
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<210> 5019  
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 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560286H1

<400> 5019

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caacagaaga aactgatcag gtncccttctc ctgaaagttc tgccactgaa gtagtaaaaa 180  
cctccattga tgatcctgaa gaagaagcaa aaaaacaaac tccggctaca gagaatgaaa 240  
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<210> 5020

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560287H1

<400> 5020

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tggatcttgc tacatcacta cttgcaaaaag ccaaggaaaa ggggggtgtct ctcttggttac 180  
caagtgatgt ggtgattgca gacaaatttg ccccgatgc aaacagcaag gtcgtgccag 240  
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<210> 5021

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560288H1

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ggaaaattcg gtcacgtcta tttggccaga gagaagacta gtaatcatat tgttgctttg 180  
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 <212> nucleic acid  
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gttgaaggtt accgtattgc tgggtggcccc ctcggtgagg tcaactgaccc aatctaccca 180  
 ggtggcagct tcgacccatt gggccttgct gatgacccag aggettttgc tgagcttaag 240  
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 cttgttactg gaacctcaa cagcgccatg gcttctgntg accgtagcgg agtttcttct 180  
 ctcggtgctc tggttcttca accaagcctt ccggtggcgg ccggtgtcgc ggaggtcatg 240  
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 aaacaatcac catagccagt tctacctcaa gacactgacc attgaagaca ttccagggca 180  
 tgatggtcct gttaattttg tctgcaattc ttgggtctac cctgctcatc gttacgcca 240  
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tcatcagggg caaggattgg ggaatagttt tttatctcac atccgtgctg tagatggcat 180  
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cctggaactc gttggatcaa tcttctcatt caaatgatg ttgccttga aatatgtacc 180  
gagaagaaaa cgattttgtc agttgaagac atcattgctt tgattggtga taagtgcgat 240  
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aaagggtgacc agggataacc cttctccaag agcatatttc aagtgtctt ttgctccaag 180  
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 gactctgcta cccttttcaa taagggtcta gaagtaattg aagcacatta cttgtntggn 180  
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 tgaccnttgg actctgaagg agagcccatt aggtcaagcg aaaagcatag tgcataaaag 180  
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gggatgactt gncgcccga acaaacgggt cccctgagac atcgtgtcac tctgcaacaa 240  
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ccgttcctct ggccaccttt ctaataagct aaaagtttca gccctcaaaa gcaacgaaac 180  
aaagccaaag cagttctcac tgtgtcaaaa cggatggctc cccgctttcc cccagttctt 240  
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caacagatgt catcgcaaaa ggattactcc atggcaactg cggatgtagt ggatgcggaa 180  
gtgaggggaac tggtagagag agctattcta gggcaacaca tattatctca actcacattg 240  
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gtggaaacta caacgaatgt tgtgcccga gatgttgta gtaaagggtta ttttgctgtt 180  
gttgcaataa aagatggaga aatcaaaagg tttgttggtg agttagacta cttggctaata 240  
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atatagtgat aaatggggag agaatggcta tatcagaata caaagaaaac tgagcacttg 240  
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 cgccatgttc cgcaaggact gcaccgatct ggttcgccgg atctccctcc tcacccacct 240  
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 ggatttatga ggcccttgaa ttgagagatg gaggatctga ctaccttgga aagggtgtat 240  
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agtaaatacaa tggatagtct tggctcctatt gaaaatacca gtctaaggga agaccctaaa 180

attttaaccg atatagaaaa aaaaattcac agggatttgg attatttaga aatggaaggt 240

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<212> nucleic acid

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 gacaagccta tggaattaat ggtggcatgg cttgagggaa ggagttgatg catctggcag 240  
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gaagaacttc agaaattgtt gagggagaag agtgaactca aagcgacagc tgctgaaaaa 180  
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gcctcagaca ggatcaaagc tggtttcatt cacttcaaga agg 283

<210> 5060  
<211> 278  
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<223> Clone ID: 700560335H1

<400> 5060

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 ctcgaggggc tctgcttgaa ggtctgact cactatccca ctcttttcga ccattttcag 180  
 agggngcttc gccaaagtct ccgagactcc ttcattcagg actggcgagg caccaagtct 240  
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<210> 5061

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560336H1

<400> 5061

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 atagccggtt gaagcgcaag ggcgctgggt ctggaaggaa gcaatcgaag aaagctgcta 180  
 aggatcctaa caagccaaag agacctccaa gcgctttctt cgttttcatg tccgagttca 240  
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<210> 5062

<211> 282

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560337H1

<400> 5062

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 caagcacgcc cgttctcgcc atggtgggct tcttgggctt tgcagtccaa gctgccgcca 180  
 ctggcaaggg cccgctcaac aactgggcca cccacttgag tgaccactc cacacaacca 240  
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 <212> nucleic acid  
 <213> Glycine max  
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 aatttgactg t 71

<210> 5064  
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 <212> nucleic acid  
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 <223> Clone ID: 700560340H1  
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 tggtaatggt ttcacttctt tgttctatgc acaatctggt attcacccta tgtcgagtcc 180  
 aaaacctgtc tgccagaatg agagttctcc ctttcccaca agtacctcca cccagtccta 240  
 tcctganagc cacaatcaga tcaactacat gactgctcca atga 284

<210> 5065  
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 <212> nucleic acid  
 <213> Glycine max  
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 cnggancggn attnaaan gttnccttt tatcagaaat gcaagctcca tctcatcacc 180  
 atcaatttca atacgacaag caataatgcc tntgactacn taatagttn aggancaca 240  
 gcaggtgtct ttngctgaaa cct 263



<210> 5066  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560342H1  
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 tgggtgactca gccgtggatg tagggaataa tgactatctt cccacccttt tcaaggctga 180  
 ttaccctcct tatgggaggg actttgctaa ccaccaacct actgggaggt tttgcaatgg 240  
 caaattagct actgatttta ctgctgacac tttgggtttt aaga 284

<210> 5067  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560343H1  
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 aattcccatg gttaagccta tccctattcn natatataag cctataccaa aatcagttcc 180  
 cattgtgaaa ccaattccta ttattaaacc aatactaaag ccaaattcca ttgttaagcc 240  
 aattccaaag ctgattccca ttgttaagcc tatnccaaac ccattaa 287

<210> 5068  
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 <212> nucleic acid  
 <213> Glycine max  
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agcagcacga ggagcatggt gtgctcttcc cagcacttgc aagtggagaa ttggagggtg 180  
 ttgaggccat ggtggaggaa gacccactg tgttgaaca caccactggc tgtgaccgcc 240  
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<210> 5069  
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 accaaggggt ttgagnacat acgaatggtt ctttcggcgt ggaagtgggt ggttctcgca 180  
 ancatcactn cgcttggtca ggagagacgc gttccagttg aaaaagcagg aagtgagatt 240  
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<210> 5070  
 <211> 178  
 <212> nucleic acid  
 <213> Glycine max  
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 <400> 5070

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 atcttacctg agcagtttaa aattttggga gacgataact tttgtcttta taccatgtgt 120  
 ttctctgcta tttgatggtg tacgatttgc ttataaataa gaaatgaacg caacaatc 178

<210> 5071  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560347H1  
 <400> 5071

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agcaaaattg ctgcagaacg tcaaaaaact gntgattctg caattgcaaa catcacttgc 120  
 agcaattcag tgaatatata tggttggtatt ggtgttccat ggcttattga tactttgtac 180  
 aacttcatag catatagaga acctctccga atccaaaatg cagggggact aagctttcgt 240  
 tgattgtttt ctctccactt ctgtcgggtg tatctcagtt ttggttttaa ggc 293

<210> 5072  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560348H1  
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 cttcggcaag aaaaaggctc ccgccccaaa gaaagcctcc aggggatcgg gccgagacac 180  
 cgacagaccc ctttggtatc cgggcgcca agcgcccgaa tacctcgatg ggagtcttgt 240  
 cggagatacg ggttcgatcc gtttgggcta gggaagcccg cggagtacct gcattcga 298

<210> 5073  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560349H1  
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 cccctcncgc cgcngctcca acgccgtcgt tctgtcgagg cgcaggngcn gccagggtct 180  
 ccgccatggc naaggagttg cattcaacaa agacggcanc gcaattaaga agctncagag 240  
 cgggtgtgaaa agctcgcgga ttcgttgngg tcacgcntg 279

<210> 5074  
 <211> 277  
 <212> nucleic acid  
 <213> Glycine max

<223> Clone ID: 700560350H1

<400> 5074

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 aggaacacaca aaccagggaaggaaatctt agtggccggg atcgatcata aggaggaaga 180  
 aatacnnggt tttgggacct cttcnctnn cttataaaa agtccaaaac aggagcctct 240  
 tgggtgtttta gaaaggagga ggttggggga naagggt 277

<210> 5075

<211> 160

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560351H1

<400> 5075

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 tttgntgatt tgnancngnt ncanttcaan tnattccana 160

<210> 5076

<211> 281

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560355H1

<400> 5076

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 gaagcagctg tgtccaaagg atcttttgag gacaatttca gcataatgtg gtctgaggac 180  
 cattttacta cctctaaaga tggacagatc tggatatctc cactagacaa agacacagga 240  
 tgtggattca aacaaaacaa cgctacagat ttgggtggtt c 281

<210> 5077

<211> 284

<212> nucleic acid  
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 <223> Clone ID: 700560357H1  
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 atagagagag aaagcgcnnn nnnnnnnnnn nnnnnnnnnn nnngacagtg agaagagaga 180  
 gagaagcgct cttctccgta ccgtttctag agagaganac tgatggccgg agttaatccg 240  
 aacggcgctc cngattttcc ggcgactcca acgcaggcgg acag 284

<210> 5078  
 <211> 287  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560359H1  
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 tctaccaggt tactcaaaca gtattttgaa ctctcaatac ctgaaggcgg cacaagattt 180  
 gcttgatgaa atagttagt tccgaaaggc tttgaagcaa tctgggaatg ggnaaaacaa 240  
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<210> 5079  
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 <212> nucleic acid  
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 gaaattgcta ataaggccct gttctggcag cagcaaaact attatgggtg tgatttaaca 180  
 cccctacatg ggactgcatt tcaaggatac tttctcagcc tgtggtggat gctttgatcc 240

aagatgttaa tagctccttc aatgttccag tgatagactc accaaaa 287

<210> 5080  
<211> 291  
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<213> Glycine max  
  
<223> Clone ID: 700560362H1  
  
<400> 5080

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aaacaactgg ttgggctcct tgtatggctt cttcctcagt tggtagaaga gctacatatt 180  
caacacaatc tgtatcgaca aatgagccag ttgtatctgt agattggctt atgataacct 240  
gaaggagcca gatatcaagg tactagatgc ttcgtggtac atgccggatg a 291

<210> 5081  
<211> 291  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560363H1  
  
<400> 5081

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ccaccccatc aggcctcacc atcagagctg gttcctatgc tgatgagctc gttaagaccg 180  
cgaaaacagt ggcttcacca gggaggggta ttttggccat ggatgagtcc aatgctacct 240  
gtgggaagcg tttggctcaa tgggctagag aacatgaagc taacgccagc a 291

<210> 5082  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560365H1  
  
<400> 5082

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ctcggatgatg gnggccttca tgcgtcctc cgatctctcc tcaatctggc cctcgccggc 180  
gccgncgcaa tccacggcgg tcttcaatca ggacaccctc cagcatcgcc tgcaggcctt 240  
gatcgaaggn ncnnganaga ctngaantat gccatcttct g 281

<210> 5083  
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<212> nucleic acid  
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<223> Clone ID: 700560366H1  
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gaggttgaaa gaaacacaag cacacttatg actctgatga gtcaactggg gtgttncaaa 180  
aggctgaaaag tgaanntanc gggcacgct acgttggtga tgagaacacg aaatctcctc 240  
tccacaatgc aacgtcaaga tgtctaga 268

<210> 5084  
<211> 273  
<212> nucleic acid  
<213> Glycine max  
<223> Clone ID: 700560369H1  
<400> 5084

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aacctccaac agngccatgg cttctcatga ctgctgcgga gttcttctct cgctgctctg 180  
gttcttcaac caagccttcc ggtggcgacc ggtgtcgcg aggtcatgac tgagaagcta 240  
ccgagtgagg agaagctgcg gggctgacat ctt 273

<210> 5085  
<211> 277  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560370H1

<400> 5085

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ttttgcctta ttctatggctc attagcaatg ttggcncaag aattatctat aacaataata 180  
ttgagagtta gatttttgctt ggatttggtc ttattttatt gggggatggg gagaagggtt 240  
gtgtactagn cncgcncata ggtacaaaac catcatc 277

<210> 5086

<211> 278

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560371H1

<400> 5086

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ccccgaagcg aagaagaagc agcttcatta ctgcttcgtg gcaagagctc gcgggagttt 180  
tactattctc cgcgattcct tcttgccgt gaaagctata gctaatagtc cgctagggag 240  
tcgcttcaga ggctanngag gagagaaaga ctttgctg 278

<210> 5087

<211> 283

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560373H1

<400> 5087

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agctttggaa aggtgcgggc ttatttgatg atggtgcaaa gcgggttgat gaagctacac 180  
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gagtnatnga atncctagat accncactga aagggcagan acc 283



<210> 5088  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560375H1  
  
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 tcaagttttc anctacctgg attttgcatg ccccgaaatgc ttgangatga tggggggagt 180  
 gattctgatg aaggggagtt tgangctgtc acacctgaac atgatctgaa acatntgaat 240  
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<210> 5089  
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 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560376H1  
  
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 gatagcaacc cagccattgc taccgaggca tccaaagcta tttatgaact gaaaaaacia 240  
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<210> 5090  
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 <212> nucleic acid  
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 <223> Clone ID: 700560377H1  
  
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gctcttttcc ctctgattta attcatgcmc agatccaaac cctaattccat ctctccgagg 180  
 gtttgatggc tgaccaagga ttggaaggga gccagccggt ggatctacag aagcatcctt 240  
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<210> 5091  
 <211> 286  
 <212> nucleic acid  
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 <223> Clone ID: 700560378H1  
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 gattatgaag ctgttgatga gcttgccggag ggctttaatg gagctgatct tcgaaatgtg 180  
 tgcacggaag ctggaatggc agcaattcgt gcagaacgtg attatgtgat ccatgaagat 240  
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<210> 5092  
 <211> 291  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560379H1  
 <400> 5092

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 gcataaggaa actgaggatg actatgctta cctctctaac ttacttcaag actttaccat 180  
 tattccaac attgacaagg catggctttt agctcaccgg gctcgagtt gcaggggaatg 240  
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<210> 5093  
 <211> 294  
 <212> nucleic acid  
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 <223> Clone ID: 700560380H1

<400> 5093

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cacgggaaga agtactgcga caaaggatgg gaatgtaagg gctggtcaat ttactgttgt 180

aacctcacca ttaccgatta tttccagacc taccagttcg agaactctgtt ctccaagcgg 240

aactcgccgg tggcgcacgc ggtcggattt gggataccat cctcatcgcc gcgc 294

<210> 5094

<211> 273

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560382H1

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tcttgatggt catgcatgca ttgcaaaaga tcctcagcac tttcggcaac ttgttgcttt 180

cctagtgcac aatttcggg tagacaattc ccttttgagg aagcgtggtg cttgataatt 240

cgtcgacttt gtgtgctttt gaatgctgag aga 273

<210> 5095

<211> 274

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560383H1

<400> 5095

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tagggttgag aacgctttcc ttgatttcct caaaagcttc aagtccagta gccatcggaa 180

cgaactttat tacgaagcgg agatcgaatt gatgaagagc aatgactcca acaccatggt 240

cgtcgatttc gaccacgtca tcagattcag cgac 274

<210> 5096  
 <211> 278  
 <212> nucleic acid  
 <213> Glycine max  
  
 <223> Clone ID: 700560384H1  
  
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354227-62660

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 tgaatcaact ctcacctatc agcacaggac ttatgctgaa gccgttaaga aagtcattgc 240  
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301

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301

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 acgcgcgcaa natcanaacc ggagaaggag tcgccatcaa gntcntgcaa caaggngaaa 240  
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cacaagtact tctncgtcg ccaagaaata cctgttgga aagcatgttc atgcttantn 240  
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agcaacggga agatggctcc gaaggnagca acaactattc tcctgaagat agatgtctaa 180  
gtcagacaca agtagtgagg aaaactcacc tgttatttct tgcccagcta gtcctcctaa 240  
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<223> Clone ID: 700560459H1

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gcaaatgcct aaacagcaga gcctgtttgt tactggccct ccaatcacac tttctgttgt 180  
aagcagaatt aggaacggag ctaatggctg gagaggcact gtaancggtg ctgctgcagc 240  
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<223> Clone ID: 700560462H1

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 agctccttgt gttagtttgg atttaactct acccctacgt tcgtcctgan aattatcata 180  
 ttctgcgtgt tattagttgt tgtattcacg gataaagttg gaataccaga tgagttatac 240  
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<210> 5140

<211> 294

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560465H1

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 cgttcagttc ataatccaac gcacggtagc ttgcgcgccac tggcttttca accaagcgcg 240  
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<212> nucleic acid

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<223> Clone ID: 700560467H1

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 aggtattcag agtgcctgat ttgctcggtc gcgatctcgc ggctcgataat tcgtatacgt 240  
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 acctcgaggc atggggcggg ttaatggatc cgggtcacaa ctactacgag cggggcaacc 240  
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 caagcatcca naagcaccat catttgaagc catccaacgt gtgctttcaa ggncttagac 180  
 ccctcacaag gttcacaacc aaagtgaagc gcaccaccaa aagggttatt ccaaagggtg 240  
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 tcttgnccacc gggatatgtgg gagggggtga atcagaggat gtgcaggcnt tctactactt 240  
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 agggaaaagg tgaatgagat gttggataaa ttgcctggga aaatcagtct agtgctgatg 180  
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 tggcagttaa gaaggaggat attaaatttt ataaggatga tc 282

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 atgttatgtt gantttccct ctctgaatt tctctagag aaccaacgta gatgagtnct 180  
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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560501H1

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 aggaacagca agaagggcag ctgcagcagc agaagaagct atgtgataac atgtgcagca 240  
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<210> 5149

<211> 327

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560502H1

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 ctgaagataa gcttgtcaag atcactgagc tggcacgatt gcaagaggac cttcggcgca 180  
 tgaatgcaga gaacccaaaag ctgaaggaga tgctcagcca tgtcagcagt aactacgcga 240  
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327

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560503H1

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aagggtacca gggataaccc ttctccaaga gcatatttca agtgctcttt tgctccaagc 180

tgcccgggtca aaaagaaggt gcaaagaagt gtggatgata aatctgttct gggtgcaact 240

tatgaaggag agcacaatca tcctcaccct tctcaaattg aggtaacaac aggctccaac 300

cgttgtagac tcttggttca gtacc 325

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<212> nucleic acid

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<223> Clone ID: 700560505H1

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ttcttaactc tgtttctgct ctgcctccaa acaaaagcag aggattttgg tgcaacaggg 120

aagctcgag gaacatgcaa cttgttcagt ggaaaatggg tctatgatgc ttcataacct 180

ctctatgacc cttcaacttg ccccttcgta gatccacagt tcaattgcca aaagcatggg 240

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<210> 5152

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<223> Clone ID: 700560506H1



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 caaaatttgc acaggcactg agtgagaagg gctatgagct tgtttctggt ggaatgagaa 240  
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 agcgtctggt gccaggattg accattagca acttgtattg ttctgtgtaa gttttcttgt 180  
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 gttcatatt tcaactgtgat ttcataatag attttcactc atcttacttg actccaagca 180  
 ttctatatat ctnttgcttc cagcatctc taccctcaaa tcttcaccac acaacactac 240  
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tggtcttaga acagcgtcct 320

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 ggttgatggt ggaggtggca ttggagggc tctttcggag attgtaggg cttatcctca 240  
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 tagcaacggt ggaagagtac aatgcatgca ggtgtggcca ccaattggca agaagaagtt 240  
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<210> 5168  
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<212> nucleic acid  
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<223> Clone ID: 700560527H1  
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<212> nucleic acid  
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<223> Clone ID: 700560528H1  
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311

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<212> nucleic acid

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<223> Clone ID: 700560529H1

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tcagctccca gttcagcctt ctttgggacc agcttgaaga aggttattgc ctcaagggtc 180

cccaacagca aggtttccgg tggaagcttc aagattgttg ctgtagaaga gaagaaagag 240

attgaagaga ccagcagac cgacaaggac agatggaagg gtcttgcta tgatatccag 300

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<210> 5171

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560530H1

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caacttcaga atccaggggc acagtttgaa acttgtggag gtagaaggat ctcataccct 180

ccaaaacacc tattcttccc ttgatgtcca tctcggacag tcctattccg tgctgggtcac 240

agctgatcaa cctgtcaagg attactatat ggttgtctct acaagattta ccagacggta 300

cttacaacaa cttccg 316

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<212> nucleic acid

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<223> Clone ID: 700560531H1



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acccttattc taggttccgc accccgcaaa ggancgccga cctgccatgt gctcgtcgca 180

ttccccgaac caccgttcga natgcagagc tccagcacct gccaatgcca tcattcttcn 240

ccttgtaaca tcctctgttc cctctccttc attaacgtca atcccagatc tagaagcagc 300

tntcgcnaag gattgt 316

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<211> 320

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560532H1

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atgggctatt agaaaatgga ggacaagttc cttgagcatt tcattcttgc tctcaatat 180

gttcttatgg gagcagctga tgcgtttgtc gaggttgcca aaatcgagtt tttctatgac 240

caagccccag aaagcatgaa gagccttggc acttcttatt caatgactac ttaggcattg 300

gattcctaag cacttttctt 320

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<211> 291

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560533H1

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ctctacgggt ctcacgtgc ttctccttcc cttaccaacc cttggggagc tcgtgcagga 120

gcagccacta gtcctcaagt accacaacgg ccaactcctg aaggggagca tcaccgtcaa 180

tctcatctgg tacggcacct tcaccccgat ccaaggcca taatcgtgga cttcataaac 240

tcactaagca gcgcgccaaa ngcgccgctt ccacgactgc tacgtggtgg a 291

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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560534H1  
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 atttatcttc ctcaatgatg ttgagtcca atgtgagcta cctgaatctt atgaagctat 180  
 agaaaacagc agcatagatg gcactctggg ccaatgcaat tgttccgtct ttgtttgccc 240  
 gacataatac gctccaagat aagcatatgg aggaaattca acatgatatt ctctcttctc 300  
 taagaaaatg atatta 316

<210> 5176  
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 <213> Glycine max  
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 tcaatgtcct ttaccgtgtc tctgctgtga taagcaatgc nccatatatt ctagtgtctg 180  
 attgtgacat gttctgcaat gcccagctt cagcagcca agcattgtgt nccaccttg 240  
 atcccnagan atcantttca cttgcgnntg tncaatttcc tcaganatat cacatatnag 300  
 cnagnatgac at 312

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 gtgcccgtac tccggagggtg aaatgcgcaa gttggaggct tgctgtggaa gcacacaaca 180  
 tctttggctt tgagaccatt cctgaagagt gcgttgaagc aacaaaggaa tacatccatg 240  
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 atgatcataa tacacagagg ccaagaggtn ttggcttcat cacttatgat tctgaagaag 180  
 ctgtggatag agttcttaca aaacttttca tgaactcaat ggaaagatgg ttgagggtgaa 240  
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 aggtt 305

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 ggcttcggca agaaaaaggc tcccgcacca aagaaagcct ccaggggatc gggccgagac 180  
 accgacagac ccctttggta tccgggcgcc aaagcgcccg aatacctcga tgggagtctt 240

gtcggagata cgggttcgat ccgtttgggc tagggaagcc cgcggagtac ctgcagttcg 300  
agtggatcgc tggac 315

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<213> Glycine max  
  
<223> Clone ID: 700560539H1  
  
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acatctttgg ctttgagacc attcctgaag agtgcgttga agcnacaaag gaatacatcc 180  
atggcgaaca atatagatca gactccaaaa cagttaacca ncaagcttac ttttatgcc 240  
gagacctcga agtccatccc naggacacat ttgtgttcag tatagatgna ccgtactctc 300  
taatatt 307

<210> 5181  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560540H1  
  
<400> 5181

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gggaaggggtg agcatgaggn agaccgtcan caagcaggtc tcctcaggan ngngcatggt 180  
acggnccaga ccgngtcaag tacttggggc cattctctgg cgagcncncg tcctantaac 240  
cggtgagttc ccaggcgact acggctggga catgtgggtt ccgcagaccc aga 293

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<213> Glycine max  
  
<223> Clone ID: 700560541H1

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cttcggtctg gagagtgggc tgatatggag atcgcacttc catggangat acacatatat 180  
gcatcggaga cttggcagaa aaatttgga taacgaactt tacaaggaag ctatttcctt 240  
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<210> 5183  
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<213> Glycine max  
  
<223> Clone ID: 700560542H1

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ggatattatg aaggcaataa aagttggcat tgaaccaatc cccattcaga gtggnntagg 120  
aggtgcatat nattntagga acagcaangg tganaatgct gctattgtgn naccanactg 180  
atgacgagcc ttatgcacc 199

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<213> Glycine max  
  
<223> Clone ID: 700560543H1

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tctcttgcac cctttttctt tctccagatg cttgtcttcc gtcttggatg gacttaagta 180  
tgcagattca cacgaatggg tcaagcacga aggctcagtc gccaccattg gtatcactga 240  
ccatgcccag gaccatcttg gagaggttgt gtatgtggag tgccagaatc aggggcacag 300  
ttaccagaa g 311

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 ccaaagacaa ggagacagga gaacttggtt ccatcaaata catagaaagg ggaaaaaaga 180  
 ttgatgcgaa tgttcaaagg gagatagtta accaccgatc tttaaggcat ccaaataatta 240  
 tcaggttcaa agaggtgnng agtttgntc tataactaaac tggtcntgag ttgatttttc 300  
 tagatatg 308

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 tgctaacgag gatgctattc agaggggaac tttcttccag tcttgaattg gaggcaaagc 180  
 aaacttgga agtaaataatt tctgttcgtg aaggttggtt tactaatcca agtgctagaa 240  
 gttgtgatgg aactgcgtgt aacattctta gcattctaat gtcttaggtg caaagagaga 300  
 tgctaagttg agatga 316

<210> 5187  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560548H1

<400> 5187

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 cctcaaaaca acgagctaaa tcaggctctt gaggacaacc aagagaagaa gangagtgaa 180  
 gaagatgact gnaatgacga agaatcaacc gtcacanagg tgggtggcttg atagccacac 240  
 cacttctaata cgatccccctt ggctcaatcc actctctctg agttaatgag aagacaaggc 300  
 atgttaaagt tattg 315

<210> 5188  
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 <223> Clone ID: 700560551H1  
 <400> 5188

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 ggcttgtaca gaggcagggg tcttctacgt gaaaggacat ggttttcctg agactctcct 180  
 taaagaagtt agagatgtaa cgcgcagatt ctttgaactt tcatatgaag aaaaggcgaa 240  
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 naggtgtacc tgaca 315

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 actggcacac cggggacagg aaagacaact gtgtgcactg ctctagctga agccaccag 180  
 ctctgccaca tcaatgtcgg agaattagtc aaagaaaaga acttgcattga tggatgggat 240  
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309

<210> 5190

<211> 311

<212> nucleic acid

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<223> Clone ID: 700560553H1

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tttatntctt gactatctga agtcaggaat cccggcttta ggtggtgggt ttcctagagt 240  
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<210> 5191

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<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560555H1

<400> 5191

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nnnnnnnnnn cagccgcccg aaaacctcca cgccggatcg cgcggcctca tgattccctc 240  
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<210> 5192

<211> 309

<212> nucleic acid

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<223> Clone ID: 700560560H1



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 ggaaggttca agtgagggcc tccatgaagg agaaagttgt gacggggctc accgcagctg 240  
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 tttctcccca gaaccttccc cacatacctt gcactgatgt ggctggagaa atagttgaga 240  
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cacctatgaa ttgaggtact tccagaatgg tgataccaca actatcatat tatctgtccc 300  
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<212> nucleic acid  
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aggaccctgc tatacccgtn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtgatg 180  
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<400> 5196

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gctgtacaga ggcagggttc ttctacgtga aaggacatgg ttttcctgag actctcctta 180  
aagaagttag agatgtaacg cgcagattct ttgaactttc atatgaagaa aangcganga 240  
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<210> 5197  
<211> 311  
<212> nucleic acid  
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Variable	Unit	Value
Age	Years	25.0
Height	cm	170.0
Weight	kg	70.0
Heart rate	beats/min	75.0
Stroke volume	ml	70.0
Cardiac output	l/min	5.25
Mean arterial pressure	mmHg	93.3
Systemic vascular resistance	dynes/cm <sup>2</sup>	1600
Pulmonary vascular resistance	dynes/cm <sup>2</sup>	100
Left ventricular end-diastolic volume	ml	120.0
Left ventricular stroke volume	ml	70.0
Left ventricular ejection fraction	%	58.3
Right ventricular end-diastolic volume	ml	120.0
Right ventricular stroke volume	ml	70.0
Right ventricular ejection fraction	%	58.3
Left atrial pressure	mmHg	13.3
Right atrial pressure	mmHg	13.3
Pulmonary artery pressure	mmHg	33.3
Pulmonary capillary pressure	mmHg	33.3
Transpulmonary pressure	mmHg	20.0
Alveolar pressure	mmHg	100.0
Arterial oxygen pressure	mmHg	100.0
Arterial oxygen saturation	%	98.0
Venous oxygen pressure	mmHg	40.0
Venous oxygen saturation	%	75.0
Arteriovenous oxygen difference	ml/dl	15.0
Oxygen delivery	ml/min	2800
Oxygen consumption	ml/min	250
Oxygen extraction ratio	%	8.9
Metabolic rate	W	1000
Basal metabolic rate	W	700
Thermic effect of food	W	100
Activity thermogenesis	W	200
Non-exercise activity thermogenesis	W	100
Exercise thermogenesis	W	1000
Total energy expenditure	W	2000
Energy balance	W	0
Body fat percentage	%	15.0
Lean body mass	kg	60.0
Visceral fat	kg	5.0
Subcutaneous fat	kg	10.0
Intermuscular fat	kg	0.0
Adipose tissue energy density	kJ/kg	37.0
Energy stored in fat	kJ	740
Energy stored in glycogen	kJ	100
Energy stored in protein	kJ	100
Total energy stored	kJ	940
Energy turnover	kJ/day	14400
Energy balance	kJ/day	0
Weight change	kg/day	0.0
Body composition change	%/day	0.0
Metabolic health	Score	100
Cardiovascular health	Score	100
Musculoskeletal health	Score	100
Endocrine health	Score	100
Immune health	Score	100
Overall health	Score	100

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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[illegible][illegible][illegible][illegible]

Variable	Unit	Value
Age	Years	25.0
Height	cm	170.0
Weight	kg	70.0
Heart rate	beats/min	75.0
Stroke volume	ml	70.0
Cardiac output	l/min	5.25
Mean arterial pressure	mmHg	93.3
Systemic vascular resistance	dynes/cm <sup>2</sup>	1600
Pulmonary vascular resistance	dynes/cm <sup>2</sup>	100
Left ventricular end-diastolic volume	ml	120.0
Left ventricular stroke volume	ml	70.0
Left ventricular ejection fraction	%	58.3
Right ventricular end-diastolic volume	ml	120.0
Right ventricular stroke volume	ml	70.0
Right ventricular ejection fraction	%	58.3
Left atrial pressure	mmHg	13.3
Right atrial pressure	mmHg	13.3
Pulmonary artery pressure	mmHg	33.3
Pulmonary capillary pressure	mmHg	33.3
Transpulmonary pressure	mmHg	20.0
Alveolar pressure	mmHg	100.0
Arterial oxygen pressure	mmHg	100.0
Arterial oxygen saturation	%	98.0
Venous oxygen pressure	mmHg	40.0
Venous oxygen saturation	%	75.0
Arteriovenous oxygen difference	ml/dl	15.0
Oxygen delivery	ml/min	2800
Oxygen consumption	ml/min	250
Oxygen extraction ratio	%	8.9
Metabolic rate	W	1000
Basal metabolic rate	W	700
Thermic effect of food	W	100
Activity thermogenesis	W	200
Non-exercise activity thermogenesis	W	100
Exercise thermogenesis	W	1000
Total energy expenditure	W	2000
Energy balance	W	0
Body fat percentage	%	15.0
Lean body mass	kg	60.0
Visceral fat	kg	5.0
Subcutaneous fat	kg	10.0
Intermuscular fat	kg	0.0
Adipose tissue energy density	kJ/kg	37.0
Energy stored in fat	kJ	740
Energy stored in glycogen	kJ	100
Energy stored in protein	kJ	100
Total energy stored	kJ	940
Energy turnover	kJ/day	14400
Energy balance	kJ/day	0
Weight change	kg/day	0.0
Body composition change	%/day	0.0
Metabolic health	Score	100
Cardiovascular health	Score	100
Musculoskeletal health	Score	100
Endocrine health	Score	100
Immune health	Score	100
Overall health	Score	100

[illegible][illegible]

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 ataaggcttc ttccgtgaac atcttgagca aaagtaagaa aaaaacgatg ctacttctct 180  
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 accagacaaa ggtaagagtc atgaagtttt gataggatct gtatcagtta gtctggatta 180  
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 gcaaaccctt gaatccaagt actggtcctc cttcaagacc caacaaattc ccaatctcat 180  
 ctccgttctt tccatcacgt tctctccgac acccctcac tctttcgccg ccgcacattc 240  
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308

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gagtatcaag tgagacattc ggaaaccctt gtagaggagt ggcaaaaagt ttagcagttg 240  
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agggtgctgca ntctcggggg attgatgatg ttttcacctc ctccagagga tccancaaga 180  
cncctcgcaa ctctcgtnaan gctacttttg attgcntgat gnaaacctat ggattcctga 240  
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<223> Clone ID: 700560593H1

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gttaccatgg gaaattctct tgtgatagtt tcagccacan gaagtcagtt ctctatagna 180  
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 tcaagtactt gggcccatc tctggcgagc ccccgctcta cctaaccggt gagttcccag 180  
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tacactcgcg ggcctttcct gcctagtgtt tcttccaagc actctccacc ctccatctct 120  
ccatcttttg ngcttgagga gtctgaaatc gagctcttta tttggagaat ctctaagagt 180  
ggcatccaaa tcaacactaa aggtttcaaa gacaaagaat acttcactcg tgaccagatg 240  
tgaaattggt gacagtctgg aagaattcct cacaaaagca acaccagata aggggttgat 300  
cagg 304

<210> 5219  
<211> 303  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560604H1  
  
<400> 5219

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cagtagcatc tggancatga gccttattgt gaaagatgga tatcaatgga ggaaatatgg 120  
nctgatgtga cnagggataa cccttctcca tgagcatatt tcaagtgcnc ttttgcncca 180  
agctgcccgg tcgaaagcag gtgnaannag tgtggatgat caatctgtnc tggttgcaac 240  
ttatgtanga gagcnctatc atcctcacc ttctcaaag gaggtancaa naggtccaa 300  
ccg 303

<210> 5220  
<211> 297

<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560605H1

<400> 5220

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gnactcaagn acatgccgtg acagcgggtcc tgaatcttcc atatatgaaa acaacaaagg 120  
nagtattggt tcttcnngag cagntccagg tatagntcat gtgctgaaga aggggaagcat 180  
ggaggntcgg aaaatgcnac ngcnacacnt ttcnnccttc agtaatagat gaaaccagggt 240  
tacaattgga tccttaggag ccatancacc atagtgcacac tgctaagtgg aggggnac 297

<210> 5221  
<211> 300  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560607H1

<400> 5221

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ttggatatttt ccggccacca cccggcgaac tctccggcgg aaaagtccac tttctctcag 120  
actttagtgc tattgagcca atacatcaag gaaaagggtg ccttcggaga ccttaccctc 180  
gggatgactt gcnnatgcca aacaaacgggt tcccctgaga catcgtgtca ctctgcaaca 240  
accanggagt tgtttcccac gatcatcacg caacggaacc caactactgt ggattcctat 300

<210> 5222  
<211> 286  
<212> nucleic acid  
<213> Glycine max

<223> Clone ID: 700560608H1

<400> 5222

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acgcntcaaa atcangttat cagtgtgtca ccctgacttt tcannncaca attntctgnt 120  
gcttnatntc tcaactgtgat ttcatactag gttttcggtc atcttagttg actccaagcn 180  
ggtanatatc tnntgectcc acgcatngct accctcagat cttcanacac nagactacct 240

cnatnantcg actnaagcnt cattcancat cngtctgtgt tgngtt

286

<210> 5223

<211> 307

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560610H1

<400> 5223

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cttcttgaag atcctgaatt gcgggctgaa agaaaagaag tcattactgg ccaactgttc 120

ctccaaggaa actgtgaaaa caataacctt ggcgattaat tttgtccaag cccacagtct 180

ggggctctga tagtgtcccc atttttgccc acaactgggg gaactttcat tctacttnac 240

atggatgcca acatactata accagtcttg aagtttatct tacagaatct gggctatttg 300

tgtttac 307

<210> 5224

<211> 305

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560611H1

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ccgctctgtg ggctctctac atttcatcat tcatcgaaa aatggctctc gaggttgctg 120

ttaaggctgc tgttggtgct ccaaatgttc tcggagattg tccattttcc caaaggtcc 180

tcttaacttt agaggagaag aaaatccctt acaaactcca cctcatcgat ctcagtagta 240

aaccggaatg gtttttgggt gtgaatcccg aaggaaggty ccagtgggtc ttttgatggc 300

aatg 305

<210> 5225

<211> 286

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560612H1

[illegible][illegible][illegible][illegible][illegible]

ctca

304

<210> 5228  
<211> 282  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560616H1  
  
<400> 5228

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agacttccgg cctcctccgc cacatttgta tgtcttgaat cagcagaagc cttggccttg 120  
atgccaataa cttgaggtac atcactgatc acttccggta caaattgcaa tgagaggnga 180  
aagnnnnncng caagatatta ctcatccaat tggagaactt gggctgctgt caacattcaa 240  
tttgcttgga gacgttacag gcagaggata aaggctcctgt ga 282

<210> 5229  
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<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560617H1  
  
<400> 5229

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ganacttnna ggagcttgggt tcagggaaact tcggagtggc aagggttgcc aaagacaagg 120  
agacaggaga acttggtgcc atcaaataca tagaaagggg aaaaaagatt gatgcgaatg 180  
ttcaaangga gatagttaac caccgatctt taaggcatcc aaatattatc aggttcaaag 240  
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<210> 5230  
<211> 300  
<212> nucleic acid  
<213> Glycine max  
  
<223> Clone ID: 700560618H1  
  
<400> 5230

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aaagaagaag aagcaaaciaa tggccgatca acttaccgat gaacagatct ccgagttcaa 120  
 ggaagccttc agcttggttcg acaaggacgg cgatgggttc atcacaacca aggagcttgg 180  
 aactgttatg cgttcattgg ggcaaaaacc aactgaggca gagctccagg acatgatcat 240  
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<210> 5231

<211> 300

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560619H1

<400> 5231

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 ccacaaggcc agctccatct gcctctagcc ctgcctcctt caagactgtg gctcttttct 180  
 ccaaaaagaa ggctgcacct ccaaaaaaag ctgcagctgc tgctcctgcc aatgatgagc 240  
 ttgccaagtg gtatggctct gacagaagga tcttcttgcc tnagggtctc ttggaccgat 300

<210> 5232

<211> 299

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560620H1

<400> 5232

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 cagcctaagt cacctggaat caacatgaat tctgagccat ctgtagttgc tggtcctgat 120  
 cttgatgcat caaaagaaca accagtggga aaagcccctg tgactactgg tgtaaatgac 180  
 atattctggg aacgattctt gacagagaat cctgggttcat ctgaaatgca ggaagcacag 240  
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<210> 5233

<211> 298

<212> nucleic acid

<213> Glycine max



<223> Clone ID: 700560621H1

<400> 5233

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ttcttntcaa tcaactccca cctttggaat tcaagggttt gagcaaggag gaggaagact 180  
cattgctagg gcaagtggaa atatggagggt acatgacatg cttcacggac tccgtggcct 240  
tgaaagctgt catagagctt cgtatagcgg acatactaga ccgttatggt aaaccata 298

<210> 5234

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560622H1

<400> 5234

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ttatgtttat cagagtccgc aagatgcaat tatacctttt cagatttttag ggggtgaagc 120  
tcaagtgggt cagataatgt tgaagccaca agaaaaaatc atcgcaaagc ctggttctat 180  
gtgctttatg tctggatccg ttgaaatgga aaatgcctac cttccagaaa atgaagtagg 240  
catatggcag tggttatttg gcaaaactat aactagcatt gtacttcgca attctgga 298

<210> 5235

<211> 298

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560624H1

<400> 5235

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ttcaccttat tcatctcaaa gatttctcct ttctctcctt tcctctctct ttgccttct 180  
gggtgttttc aaaacgcgct taaaaccgtg atgggtgccc tcgtcgagtg ttaccacag 240  
ccgcgcacgg cgtgctgtcc ctgaacacct tgccgttagg ttccgtttcc gtcccacg 298

<210> 5236  
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 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560625H1

<400> 5236

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 gggcatangg nggtattggt aagacaaaca ttgcacaaga agtttataat aaactctgtt 180  
 ttgaatatga aggttgctgt tttttggcta acataaggga agagtcaggn agacatggaa 240  
 taatctcatt aaaganaaat ctttttccaa cattattagg agaggatatt tgacaattga 300  
 cc 302

<210> 5237  
 <211> 300  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560626H1

<400> 5237

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 aattgatcta tttactcaat ttaaaaactt gggactgaaa cctgatgggg cagatgttca 120  
 ttggagttca tttgcatgta gtgtgctggg agatattgac gagggaatgc tgcactttga 180  
 atcccatgag caaggattac ggcattgtac catctatgac tcattttgtc agtgtagtag 240  
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<210> 5238  
 <211> 210  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560627H1

<400> 5238

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natttgatca ctctgtatt gngttttggt ccttccttgg ttcgtncctt ccacaaacca 120  
 aaaanccaac aaaagaacgt tcatttttna ttttcgtttc naataaagag atggccggtg 180  
 gtntattcgg agacattctt tctcggaaga 210

<210> 5239  
 <211> 293  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560629H1  
 <400> 5239

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 caccggcaag accatcaccc ttgaggtgga aagctctgac accatcgaca acgtcaaggc 120  
 caagatccag gacaaggaag gaatcccccc ggaccagcaa cgtctcattt tgcnggaaa 180  
 gcaacttgag gacggccgta cccttgctga ctacaacatt cagaaggaga gtatcttcac 240  
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<210> 5240  
 <211> 261  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560631H1  
 <400> 5240

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 aacccaagt tccccactat cctccaaaat acatccgaaa cgcgcgtttc aaacacctcc 180  
 tcgacgcgaa aancattact catcgtcatc cccagcaaga atcacacgtc cagggcacag 240  
 taatctgcgg caaaagggtg t 261

<210> 5241  
 <211> 299  
 <212> nucleic acid  
 <213> Glycine max  
 <223> Clone ID: 700560633H1

<400> 5241

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 ggnaccata tngnanangc gntcttctcc tctcnatncg tnganggcct ctccacgtta 120  
 tctcccccg ngctactcact ncnctcaact ccccgantc ccatcncctt caaatntcgc 180  
 cactcnnctt gctngnagga gntggctgtc aactactatg ncncaattag gntgggttcag 240  
 caaangattg tgtgngcaat attgtgtggn ggctatagca tggggnccac gaaangnnt 299

<210> 5242

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560634H1

<400> 5242

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 tgccatcaac tttgacttgc ctcatgtggt tgccactgct cctaagttcg atgggatcac 180  
 ccatgttgga ggtgacatgt tcgtgtccat tcctagtgtg gatgctatct acatgaagtg 240  
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<210> 5243

<211> 288

<212> nucleic acid

<213> Glycine max

<223> Clone ID: 700560635H1

<400> 5243

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 gatgaagagg aggaatcaga naggaagagt agacttgac ttaataaaag agctgggtgaa 120  
 gatgatgaag aagggtccaag gggaggggac catgatctag atgacgacga tgttgagaag 180  
 ggcgatgatt gggagcatga agagattttc actgatgatg atgaagctgt tggcaatgat 240  
 cctgaggaaa gggaggattt ggctcctgaa gttcctgtc ctctgaa 288